

RIGA TECHNICAL UNIVERSITY
FACULTY OF COMPUTER SCIENCE AND INFORMATION
TECHNOLOGY

ACADEMIC STUDY PROGRAM

BUSINESS INFORMATICS
for

Master of Engineering Sciences degree in Business Informatics

Overview and the self-assessment for 2010/11

Riga/2011

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Abbreviations

IT – Information Technology

ICT – Information and Communication Technology

RTU – Riga Technical University

LR – Latvian Republic

ORTUS – e-learning and study process management ICT system of RTU

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Supplementary Appendix

Nr.	Documents	Where to find them
1.	Extract from Industrial Committee and Faculty Council meetings.	A copy – available at the study program director's office.
2.	Study plans	http://stpk.cs.rtu.lv/bi/content/study-process
3.	Agreements between Universities	In Kaļķu 1, copies – available at the study program director's office.
4.	Comparison to e-CF	Available at the study program director's office.
5.	Paper <i>Kirikova M. On the identity of Business Informatics. In: Proceedings of 8th International Conference on Perspectives in Business Informatics Research (BIR 2009), J. Aidemark, S. Carlsson, and B. Cronquist (Eds.), Kristianstad University College, Sweden, 2009, pp. 37-48.</i>	Available at the study program director's office.
6.	Regulation: RTU Studiju rezultātu vērtēšanas nolikums (2010. gada 29. marts, protokola Nr. 539.).	In ORTUS
7.	Supporting letters by IT Cluster, LETERAm and Latvian Technology Park	Available at the study program director's office.
8.	Viewpoint of the expert Anda Līce	http://stpk.cs.rtu.lv/bi/lv/content/par
9.	Cooperation agreement with Digital Mind	Copy - available at the study program director's office.
10.	Complete course description	In ORTUS
11.	Description of the study program of the University of Vienna	Copy - available at the study program director's office.

1. Goals, tasks, and learning outcomes of the study program

The aim of the Business Informatics study program is to prepare professionals with expertise in systems thinking and engineering sciences who are able to use, choose, develop, and acquire ICT solutions that enable enterprise development, are able to design intra- and inter-organizational information systems and are capable of participating in corresponding interdisciplinary and international projects.

The main tasks to be fulfilled in order to achieve the aforementioned goals as well as the main indicators of their fulfillment are reflected in Table 1.

Table 1. Basic tasks of study program “Business Informatics” and main indicators of their fulfillment.

No.	Task	Indicator
1	To develop students’ systems thinking ability and their skills to use systems theory in constructing solutions which enable the development of businesses.	Systems Theory is among the mandatory subjects of the program. In several other subjects the use of systems approach in solution identification and definition is taught.
2.	To integrate business in ICT topics at different levels of granularity (inside the courses and among the courses).	Eight structural units of RTU participate in the program. In five courses teachers from different structural units work together on the subject of the course.
3.	To apply the newest ICT developments in the study process, facilitate self-organized studies and technology-supported as well as traditional teamwork/group work.	Advanced technologies of IBM and other leading ICT companies are used in the study process. Technology-supported and traditional group work is included in several courses of the program.
4.	To assure the learning outcomes defined for the program.	The learning outcomes are achieved directly at particular mandatory subjects and indirectly by emerging synergetic effects among the courses and master thesis. The learning outcomes are also supported by compulsory choice and free choice subjects.
5.	To prepare students for their doctoral studies.	There is a study course on research methods in business informatics that introduces students to the scientific work; the master theses are organized as scientific projects. The students are involved in scientific events. The studies are in English that facilitate their inclusion in the ICT scientific society.
6.	To assure the flexibility of the study program and possibility to modify it in order to follow changes in the labor market and new developments in different ICT and business areas.	In the compulsory elective part of the program there are four modules where it is possible to add new subjects corresponding to the module themes. It is also possible to define particular concentrations as combinations of subjects belonging to these modules. Currently the concentration in Educational Informatics is defined. The flexibility of the program is achieved also by two intakes per year and full and part-time studies (see Point 2 in the Supplementary Appendix)
7.	To develop cooperation with similar or topic-related programs in other countries inside ERASMUS and other agreements.	The program operates under the cooperation agreements between RTU, University at Buffalo, and Ottawa University. In the first semester of operation agreement of cooperation with the University of Rostock was signed. It is intended to extend the cooperation (see Point 3 in the appendix and the intended actions at the last Section of this document).

According to the learning outcomes defined for the Business Informatics program, the graduates of the program will be able:

- To identify business goals which are supportable by ICT solutions
- To identify business problems which are solvable by ICT solutions
- Using appropriate technologies, to model and analyze business processes, enterprise and business architecture, and information flows, as well as to design internal and inter-institutional information systems
- To follow advances concerning computer systems, communication technologies, and software and methods of their usage and to suggest various solutions and their combinations for raising competitiveness of enterprises and enterprise networks
- Using appropriate technologies, to develop enterprise improvement strategies, to plan analysis and change management projects, and define requirements for new products and services
- To interpret business concepts in computer science and ICT terms and vice versa
- To motivate, educate, and train employees to use the most appropriate ICT solutions, as well as to participate in and lead inter-disciplinary and international teams
- To participate in international scientific projects in the area of business informatics as well as to propose and lead scientific projects
- To follow the rules of ethics in business and information systems development.

These learning outcomes are achieved via study courses and master thesis via their individual learning outcomes as well as synergetic results of interplay of the courses and master thesis.

2. Organization of the study program

2.1. Overview

The study program is implemented in cooperation with University at Buffalo (USA) and International Business Machines Cooperation (IBM). Currently the program is run in English using the resources of IBM Applied Research and Advanced Study Center at RTU and IBM Academic Initiative. Cooperation with IBM does not prevent using technologies of other leading industrial partners of RTU such as Microsoft, SAP, Oracle, and others. The program has multi-disciplinary features. Cooperation with Business Informatics study programs run in other countries is intended and has been started.

Since students having different types of bachelor degree can apply for the program there are additional entrance requirements defined for applicants. These requirements include English at least at the secondary school levels and the following competences acquired at the level of the first cycle of university education:

Competence adequate to bachelor level (min ECTS)	Background in			Deadline for proving the competence
	Social sciences	Natural sciences	Engineering	
Databases (3 ECTS)	x	x	x	By start of the studies
Computer Networks (3 ECTS)	x	x	x	By start of the studies
Higher Mathematics (3 ECTS)	x	x		By start of the studies
Accounting (3 ECTS)		x	x	By the beginning of the 3rd semester
Labour Safety (1,5 ECTS)	x	x	x	By the defence of master thesis

Applicants who have no aforementioned competences can acquire them via services of continuing education at RTU. Students who need competences in Accounting and Labor Safety can include the corresponding courses in their individual study plans.

Local and international students study together in the program. There are two intakes – in summer and in winter. In winter it is possible to apply for part time studies. Students of the summer intake have Master Thesis as a separate semester in their study plan to facilitate their mobility. Winter intake students can develop their Master Thesis more gradually (Supplementary Appendix, 3).

The aims and tasks of the study program correspond to the general tasks and aims of the Riga Technical University. Mission of the RTU is to provide scientific research in high quality and to prepare professionals of a high level who will be able to compete in the international labor market. By achieving its goals in the study process Business Informatics in the same time attains goals common to the University, for example, develops academic capacity by involving industrial representatives and teachers from other universities.

2.2. Quality assessment/management tools

The main responsibility for quality assurance is with the study program director; however it is a responsibility of each participant of the teachers' team, too. Quality management of the program is implemented via the following instruments:

1. Monitoring correspondence to industrial requirements (at least one new or changed standard/framework per year):
 - a. Comparison of learning outcomes to the industrial standards (comparison to e-CF was done in 2010 (Supplementary Appendix, 4))
 - b. Comparison of the study program to vacancy descriptions and/or job descriptions (In 2010/11 the comparison to some of Lattelecom SIA job descriptions was done inside the common scientific project)
2. Monitoring the scientific quality of the program:
 - a. Monitoring instructors' scientific activity (using the same indicators as in regulations of LR for academic study programs)
 - b. Monitoring students' scientific skills set using knowledge that can be acquired from the experience of Doctoral Students School of RTU (in 2011 it was identified that there is a problem with involving the students of Business Informatics in scientific projects because of their industrial commitments (most of the students are employed). As a result a new concept of Master Thesis is under the development that helps to develop the skills of scientific project establishment, implementation, and management to a higher extent.
3. Monitoring the academic quality of the program mainly via high quality academic staff (using the same indicators as in regulations of LR for academic study programs) and participation of doctoral students in the study process in order to ensure the existence of a high-quality academic team in future. Additionally this is achieved by cooperation with high-quality staff from other universities.

4. Monitoring international competitiveness of the program via comparison with similar programs (Before launching the RTU Business Informatics program was compared to several programs (Supplementary Appendix, 5; in 2011 the program was compared to the Business Informatics program at the University of Rostock).
5. Monitoring local competitiveness of the program through acquiring information from employers and comparing the study program to other study programs in LR.
6. Ensuring a stimulating study environment (currently IBM Applied Research and Advanced Study Center, ORTUS, RTU Library help to facilitate advanced studies in Business Informatics).
7. Feedback acquisition, analysis, and decision making and implementation of changes if they are necessary (annually). It is expected from each course that it will have most of the marks higher than the “middle”. Annual improvements are expected in issues that are not yet rated as having the best possible state.
 - a. Feedback from students via open discussions with teachers and study program director
 - b. Feedback from students via mid-term questionnaires (manually). The questions concern the contents of the subject (Appendix 7)
 - c. Feedback from students via post-course questionnaires (in ORTUS). Contents and teaching process are evaluated. It is possible to extend the Standard questionnaires with course-specific questions (Appendix 7)
 - d. Feedback from employers via questionnaires and open discussions
8. Discussion of the learning outcomes among study program director and teachers individually and in groups; and corresponding decision-making regarding changes needed in study contents or methods.
9. Annual self-assessment report including SWOT analysis.

3. Description of the study program

Study program „Business Informatics” (total 120 ECTS) consists of 63 ECTS of Compulsory courses, 21 ECTS of Compulsory Limited Choice courses, 6 ECTS Free Choice, and 30 ECTS Master Thesis (see Tables 2 and 3).

There are three types of courses: ICT courses (for example, Advanced Data Technologies), Business courses (B2 group) and integrated courses (for example, Business Process Management and Engineering). Each course has clearly defined learning outcomes and evaluation mechanisms. Various business and ICT issues are integrated in the program at the level of the program and at the level of individual courses (Appendix 3). A course can be viewed as a module and the program considered as consisting of several larger granularity models (by themes under the responsibility of a particular teacher) and concentrations (e.g. Educational Informatics RRI700 + DSP710 + DPI722 + HPS401).

Table 2. Volume of the program's parts and time distribution

<i>Identifier</i>	<i>Group of the subjects</i>	<i>ECTS</i>
A	Compulsory courses	63 (52.5%)
B	Compulsory/limited choice	21 (17.5%)
	1. Specializing	15 (12.5%)
	2. Humanitarian and social, educational or economic and management	6 (5%)
C	Free choice	6 (5%)
D	Master Thesis	30 (25%)
Total		120 (100%)

Practically in all courses student work is evaluated taking into consideration all the work done during the semester. The following teaching methods are used:

- lectures,
- individual assignments during the lectures,
- individual independent assignments,
- group- or teamwork during contact hours,
- independent group or team assignments,
- semester-long teamwork with managed by students,
- workshops,
- projects (Master Thesis as a scientific project)
- etc.

Table 3. Extended distribution of the courses' groups

A. COMPULSORY COURSES	63 ECTS
DSP706 Business Process Management and Engineering	6 ECTS
DLP700 e-Business Solutions	6 ECTS
DOP701 Portfolio Management Technologies	6 ECTS
DSP707 Service Science, Management and Engineering	6 ECTS
DSP708 Advanced Data Technologies	6 ECTS
DPI721 Business Analytics	6 ECTS
DPI704 Quality, Risk and Security Technologies	6 ECTS
DSP703 Systems Theory	6 ECTS
DSP701 Knowledge Management Systems	6 ECTS
DSP700 Enterprise Architecture and Requirements Engineering	6 ECTS
DSP702 Research Methods for Business Informatics	3 ECTS
B. COMPULSORY/LIMITED CHOICE	21 ECTS
B.1. Specializing	15 ECTS
<i>Networking</i>	<i>3 ECTS</i>
DST702 Mobile, Grid, and Ambient Networking	3 ECTS
DPI700 Storage Networking	3 ECTS
RRI700 Networking Technologies in Education	3 ECTS
<i>Specific software applications</i>	<i>6 ECTS</i>
DSP705 Artificial Intelligence in Business	6 ECTS

DOP702 Customer Relationship Management and Social Network Technologies	6 ECTS
DSP710 Software Applications in Education	6 ECTS
<i>Enterprise Information Systems</i>	<i>6 ECTS</i>
PBM703 Information Technology and Strategic	6 ECTS
DOP700 Enterprise Information Technology Architecture, Applications, and Integration	6 ECTS
DPI722 e-Services in Education and Science	6 ECTS
B.2. Humanitarian and social, educational or economic and management	6 ECTS
PBM415 Business Law	6 ECTS
PBM423 Business Ethics	6 ECTS
PBM409 Entrepreneurship	6 ECTS
PBM430 Business Communication Skills	6 ECTS
HPS401 Basics of Pedagogical Process	6 ECTS
C. ELECTIVE	6 ECTS
DSP709 MASTER THESIS	30 ECTS
TOTAL	120 ECTS

Software and hardware of IBM Applied Research and Advanced Study Center at RTU, software and teaching materials of IBM Academic Initiative as well as other facilities of the Faculty of Computer Science and Information are used in the study process. Resources (including electronic ones) of the RTU Scientific Library are available for the students. Video projectors and computers for presentations are available in classrooms. One of the classrooms is equipped with an electronic whiteboard, another (room of the Information systems) – with a modeling wall and audio and video hardware.

RTU e-learning management environment ORTUS is used in the study process. ORTUS is a repository of teaching materials, communication environment and a feedback acquisition mechanism in the study process where each course has its own domain. In cases of projects it can be transformed into project management environment.

During the first study year LVL 500, - were used for extending the Business Informatics resources of RTU library (Appendix 9). The initial traditional concept of the Master Thesis is changed to a more project-oriented one with more emphasis on the project proposal and agreements development. It is to be incorporated into the program in the fall of 2011.

Besides the subjects of the Business Informatics curriculum, the students can acquire additional knowledge and skills using IBM study materials and software. Students can use opportunities offered by ERASMUS and other agreements, as well as acquire free choice, continuing education and summer school courses offered at RTU.

4. Approach to learning outcomes evaluation

The learning outcomes in all subjects and in Master Thesis are evaluated according to the 10 grade (10 – the highest) system according to Regulations of RTU (Supplementary Appendix, 6). Practically in all courses the work of students is evaluated during the entire semester (most often – each week). The evaluation methods for each course/module are defined by the responsible academic personnel (teacher) according to study course goals, tasks and applied teaching methods. Some of the evaluation methods used by teachers are as follows:

- Written examinations

- Examinations that include the development of a solution and/or a discussion with the student
- Evaluation of current individual assignments (review of the topic, development of a solution, presentation, etc.)
- Assessment of the group work
- Assessment of group work that includes students peer-assessment and self-assessment
- Combinations and variations of above mentioned methods.

The results of the first study year show that the chosen approach and methods are appropriate for learning outcomes evaluation in Business Informatics (the results of self-assessment will be available only after the third semester). Weekly assessments facilitate the regularity of student knowledge growth and serve as a feedback mechanism for teachers and students. The regularity of students' work helps to strengthen their knowledge and serves as a competence development mechanism. Development of solutions and discussions in examinations helps to deeply assess student knowledge, skills, and competences.

5. Practical implementation of the study program

5.1. Used study forms and methods

According to the study plan students have lectures and practical/laboratory tasks. In regular courses students devote approximately 50% of study time to specific assignments individually or in groups.

Different study methods are used (see Section 3). The ORTUS environment is exploited intensively. To enhance students' understanding group work, model development, and other methods are used. Visual presentations are used practically in all courses with the purpose to present easily perceivable examples and explanations.

5.2. Involvement of academic personnel in research and its impact on study process

Most of the teachers are involved in different research projects (Appendix 6). Knowledge obtained in these projects helps to further develop and enrich their courses. Involvement in international research projects helps to establish new contacts with other universities and learn from outside experience.

Many teachers have high scientific qualifications. For instance, there is one academician and two corresponding members of the Academy of Sciences of Latvia involved in the program (J. Grundspenkis, L. Novickis, and U. Sukovskis); Professors J. Grabis and M. Kirikova are authors of many internationally recognized publications and members of several program committees of international scientific conferences. M. Kirikova is a member of steering committees of two international conferences one of which is the International Conference on Perspectives in Business Informatics Research. R. Strazdina is a project manager of the Business Process branch of scientific projects of the Latvian IT Competence Center. Also other professors, associated professors, docents and doctoral students involved in the program actively participate in scientific work (see Appendixes 2 and 6).

Scientific activities of the staff help ensure the correspondence of the study material to scientific advances as well as to transfer good scientific skills to the students. Students have an opportunity to be involved in scientific projects; however, taking into consideration their employment obligations, the most realistic option of doing so is in the context of their Master's thesis (see Section 3).

We would like to note here that in the study year 2010/11 several members of the academic personnel were involved in two international projects that directly concern the development of the Business Informatics program, namely OSMOZE project with the University Montpellier II, France (development of study program comparison services) and Baltisch-Deutsche Hochschulkontor project with the University of Rostock that concerns the development of business informatics topics and international cooperation in the area of business informatics.

5.3. Student involvement in the research activities

In 2010/11 students have participated in organizing the 10th International Conference on Perspectives in Business Informatics Research that is to be held in Riga in October, 2011. Students are acquainted with scientific research results and methods in their study subjects and self-dependent assignments. Taking into consideration students' employment obligations, a concept of Master Thesis described in Section 3 has been introduced. Student involvement in research activities is also supported by the mandatory study course "Research Methods in Business Informatics". Students have good opportunities to participate in international and student scientific conferences that are organized by RTU (at least two conferences annually).

6. Evaluation of the study program's sustainability

6.1. Study program's compliance with the standard of academic education

Study program's compliance with standard of academic education is reflected in Table 4.

Table 4. Business Informatics' compliance with the standard of academic education in Latvia

Latvian standard of academic education	Study program „Business Informatics”
1.	n/a
2. The aim of the academic education strategy is ensure theoretical knowledge and scientific skills preparing for self-dependent scientific research in the chosen area or sub-area	The aim of the Business Informatics study program is to prepare professionals who master systems thinking and engineering sciences ; who are able to use, choose, develop, and acquire ICT solutions that enable enterprise development; who can design intra- and inter-organizational information systems; and are capable of participating in corresponding interdisciplinary and international projects.
3. Academic education is implemented in academical study programs, and after successful accomplishment of the studies the student receives an academic master degree in the science area.	Student gets Master Degree of Engineering Sciences in Business Informatics after successful accomplishment of the study program Business Informatics.
4. Structure and content of the study program promotes the acquisition of skills of using acquired knowledge, scientific inquiry and research skills. Obtained academic	Study program involves deeply theoretical subjects and shows how this theoretical knowledge appears in the newest approaches of systems analysis, modeling and design. For example, how knowledge about viable

Latvian standard of academic education	Study program „Business Informatics”
education is a prerequisite for getting a scientific qualification and it is a prerequisite for scientific activities in a chosen professional field.	systems theory (course „Systems Theory”) reflects in modern organizational architectures (course „Enterprise Architecture and Requirements Engineering”). The study program includes the course „Research Methods for Business Informatics” which prepares graduates for developing their master theses and further scientific activities.
5. Volume of the study program is set by number of credits. Credits are listed for each course (as well as practice), if the test results are positive.	Total number of the credits is 120 ECTS; for each subject and for Master Thesis there is set a particular number of credits.
6. Study program’s evaluation principles are the following: 6.1. The principle of mandatory evaluation - it is necessary to get a positive evaluation for acquisition of program contents. 6.2. The principle of diversity of learning outcomes evaluation – different methods are used for learning outcomes. 6.3. The principle of adequacy of evaluation — in the tests students can show their analytical, creative and researching skills.	The evaluation of learning outcomes of Business Informatics corresponds to evaluation criteria in each and every study course/module, which includes evaluation of the practical work, laboratory work, independent work and other activities, exams, tests, and Master Thesis.
7. Learning outcomes are evaluated on a 10-point scale	In the study program „Business Informatics” learning outcomes are evaluated according to scale which is defined into state academic standard’s, Point 7. And it is according to learning outcomes evaluation scale accepted by RTU.
8. In the study program’s learning process there are not more than six compulsory courses at the same time.	In the study program there are not more than five compulsory courses in one semester.
9. – 19. Bachelor studies	n/a
20. Master studies give indepth theoretical knowledge and research skills in the selected area of scientific research.	The study program is focused on theoretical knowledge in systems theory, knowledge management, advanced data technologies and other areas and their application in the development of integrated business, information and communication technology solutions that helps to see the relationship between theoretical and practical issues taking into consideration the impact of the solutions on the well-being of society and individuals.
21. The aim of the master studies is to prepare students for independent scientific research.	Students study „Research Methods for Business Informatics” and use the acquired methods in their master thesis development. The course „Service science, management and Engineering” helps to see a link between theoretical research and their practical usage. In addition, in several courses research methods must be used to complete individual assignments.
22. The most important task of the master studies is to promote student’s theoretical skills and research skills individual usage for problem solving.	In the study program almost all courses includes practical or laboratory works, where students show their skills to use theoretical knowledge independently. The same applies to self-dependent assignments.
23. The volume of the master study program is 120 ECTS; from them 30 ECTS is Master Thesis. Master Thesis is a research work in the selected scientific area.	The volume of the study program is 120 ECTS. Master thesis is 30 ECTS. Master Thesis is research work in engineer sciences, and in research process a student can make his/her own scientific conclusions, develop new methods, algorithms or prototypes, which promote development of the information and communication technology and/or their usage techniques.
24. Master study program’s compulsory	Courses, where dominates research of the issues:

Latvian standard of academic education	Study program „Business Informatics”
courses include research of the theoretical knowledge in selected scientific area (at least 45 ECTS) and theoretical knowledge approbation (at least 22.5 ECTS).	<p>Systems Theory (6 ECTS); Knowledge Management Systems (6 ECTS); Advanced Data Technologies (6 ECTS); Service Science, Management and Engineering (6 ECTS); Enterprise Architecture and Requirements Engineering (6 ECTS); Research Methods for Business Informatics (3 ECTS) – total 33 ECTS.</p> <p>Courses, where part of theoretical knowledge is approximately equal with part of the knowledge approbation: Business Process Management and Engineering (6 ECTS); e-Business Solutions (6 ECTS); Business Analytics (6 ECTS); Quality, Risk and Security Technologies (6 ECTS); Portfolio Management Technologies (6 ECTS) – total 30 ECTS. That means: approximately 15 ECTS for theoretical part, 15 ECTS to approbation.</p> <p>Courses, where dominates theoretical knowledge’s approbation (compulsory elective) – 21 ECTS.</p> <p>Thus the in the study program’s compulsory courses 48 ECTS correspond to theoretical knowledge and 36 ECTS corresponds to theoretical knowledge approbation.</p>

6.2. Employers’ surveys on employment opportunities of graduates in the future

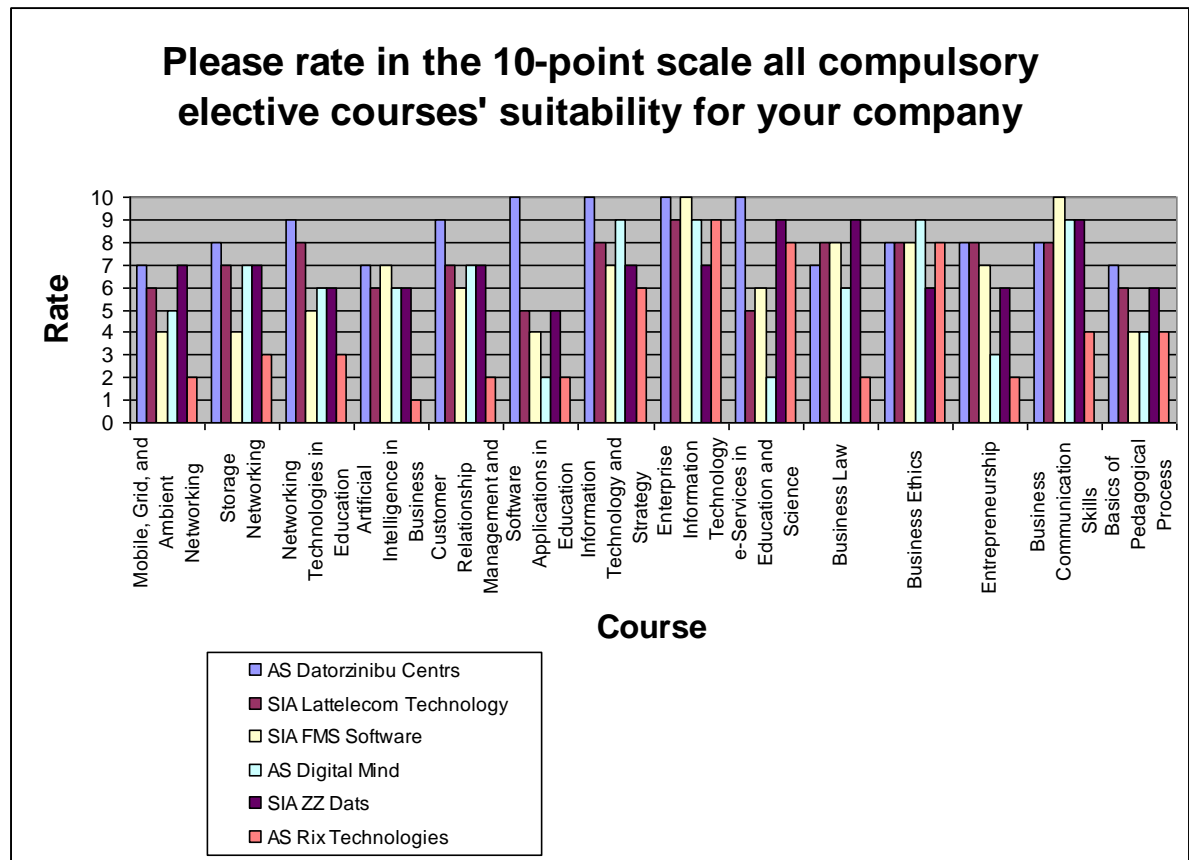
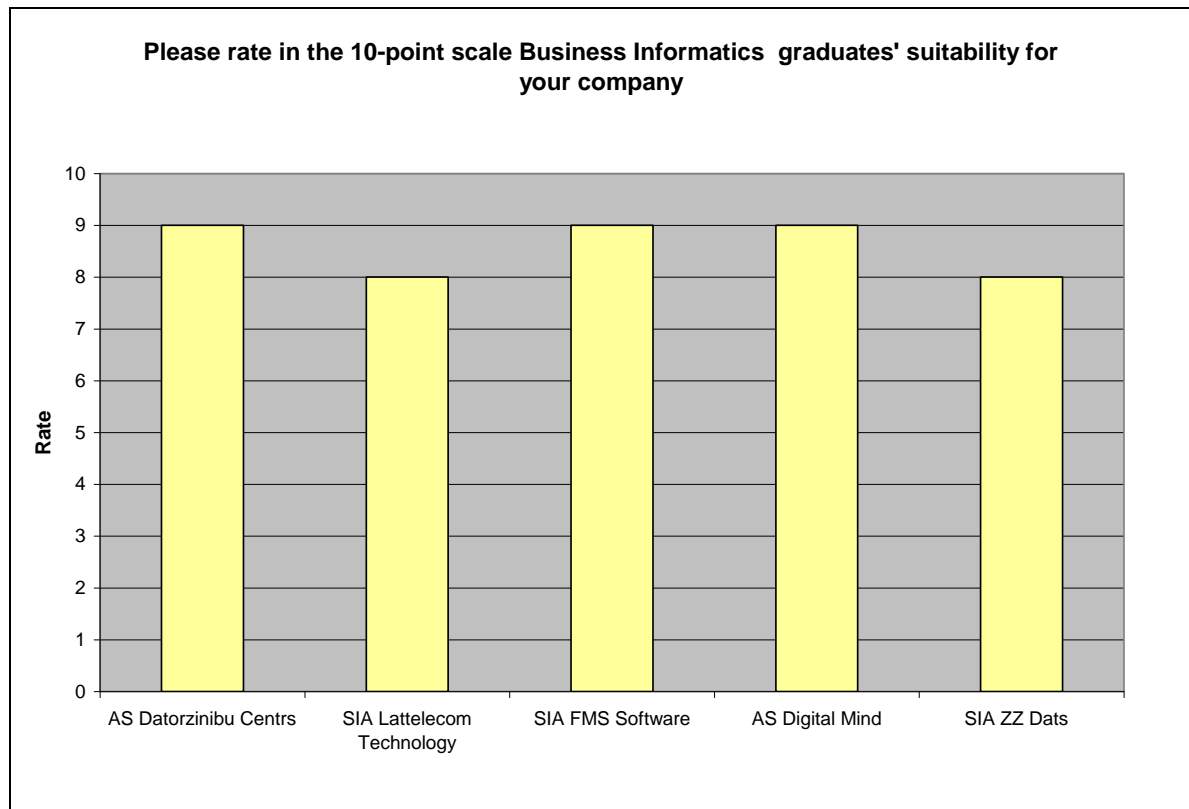
In 2010/2011 a subjective non-official comparison of learning outcomes to European e-CF framework <http://www.ecompetences.eu/> was done (with the assumption that a student takes an elective course “Ecology Management”). Optimistic evaluation results showed the following correspondence between learning outcomes of Business Informatics and e-CF target professions: *IT Quality Manager and Auditor* - 97,3%; *IT Project Manager* 96.98%; *IT Systems Architect* - 96.33%; *IT Trainer* - 95.94%; *Business Analyst* - 94.79%; *IT Sales and Marketing Consultant* - 93.71%; *IT Client Manager* - 93.38%; *IT Systems Analyst* - 93.3% ; *Integration and Testing Engineer* - 89.97% ; *Service Support Manager* - 87.57%; *IT Manager* - 87.29%; *IT Applications Consultant* - 81.7%. For other professions the correspondence was between 25 and 70%.

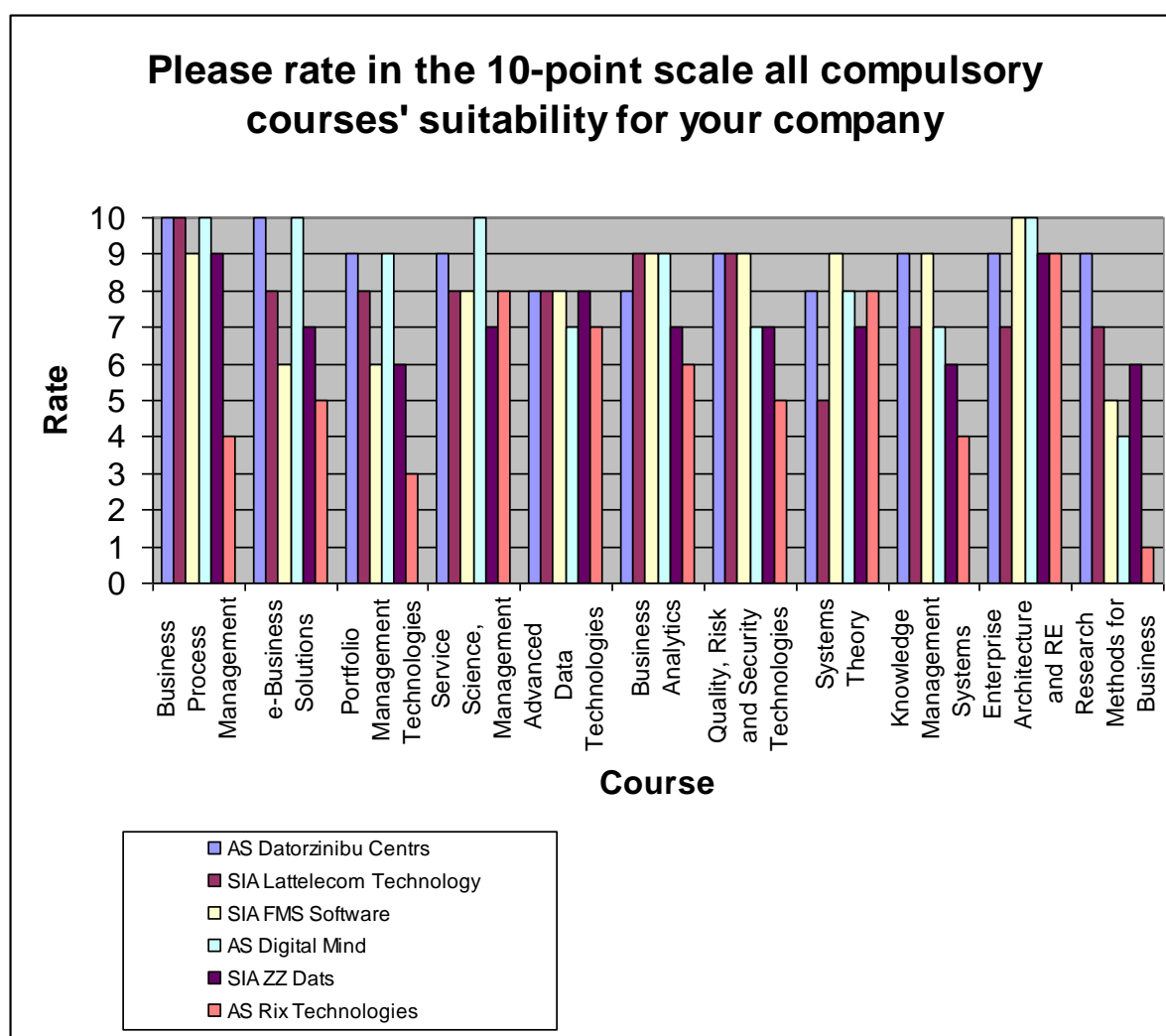
One of the most reliable sources of job opportunities research is the forecast for year 2018 provided by the USA Bureau of Labor Statistics <http://www.bls.gov/oco/ocos287.htm> . It is predicted that demand for system analysts, who are one of the target professions of the program, will increase by 20%. Usefulness of graduates in labor market is also reflected in topics of new EU research projects as well as by in the fact that prediction of the Gartner Group, which were taken into consideration when developing the program (e.g., inclusion Business Analytics among the modules of the program), have proven to be true so fare.

The introduction of the program is supported by Latvian IT Cluster, LETERA and Latvian Technology Park; it has got a positive evaluation from the expert of the expert in Education and Employment of Confederation of Latvian Employers.

The survey of employer representatives done in 2011 showed that in most cases the suitability of the programs graduates to the needs of companies is rated as 8 or 9 of 10. Only in one case the program was considered as not applicable for a particular profession (software developer). Employer representatives evaluated also each course/module. The

evaluation results show that the learning outcomes are valuable for the companies; some modules got the highest possible rating. Below the evaluation results are presented in detail.





Currently, only two of local students are not employed. Most of students are already working in study program's target positions and have chosen the program to expand their intellectual boundaries and qualifications. Some of the students are studying with the purpose to change a profile of their work.

6.3. Comparison to foreign study programs in Business Informatics

The academic study program Business Informatics at RTU was introduced after careful analysis of Business Informatics study programs in other countries as well as the model programs in Information Systems and Service Science, Management, and Engineering.¹ The comparison with several study programs is given in this section.

Business Informatics at Utrecht University, the Netherlands: Masters Degree in Business Informatics.

¹ Kirikova M. On the identity of Business Informatics. In: Proceedings of 8th International Conference on Perspectives in Business Informatics Research (BIR 2009), J. Aidemark, S. Carlsson, and B. Cronquist (Eds.), Kristianstad University College, Sweden, 2009, pp. 37-48.

Reference: <http://www.businessinformatics.nl/printableversion.php>

The comparison to the compulsory part of Business Informatics at Utrecht University is given in Table 5.

Table 5. Comparison of the Business Informatics at Utrecht University and RTU

„Business Informatics” Utrecht University			„Business Informatics” Riga Technical University	
ECTS	Course		Course	ECTS
7,5	E-business		e-Business Solutions	6
			Enterprise Architecture and Requirements Engineering	6
7,5	Enterprise Architecture		Business Process Management and Engineering	6
			Service Science, Management and Engineering	6
7,5	Method Engineering		Enterprise Information Technology Architecture, Applications, and Integration	6
7,5	Knowledge management		Portfolio Management Technologies	6
			Systems Theory	6
			Knowledge Management Systems	6

Business Informatics at Utrecht University has 4 compulsory courses/modules. Two of them (e-Business and Knowledge Management) are very close to corresponding courses at RTU (the difference is 1.5 ECTS). The Enterprise Architecture course at Utrecht relates to several courses at RTU and its topics are covered by these RTU courses. Methods Engineering is a specific title for the situation sensitive use of elements of different systems development approaches. The title is mainly popular in the Netherlands, Australia, and Switzerland. This module is also covered by several courses at RTU: we may say that 15 ECTS of Enterprise Architecture and Methods Engineering at Utrecht University are covered by parts of 6 RTU courses that all together have 36 ECTS.

Electives at RTU are organized more thematically. In Utrecht University the choice depends only on the semester when the course is given. Among the electives of both programs it is possible to select similar combinations. Both programs have Master Thesis, however, in Riga it is 30 ECTS, in Utrecht – 45 (including colloquium).

Comparison with Northern Kentucky University (USA) study program „Business Informatics”: Master degree in Business informatics.

Reference: <http://informatics.nku.edu/bis/mbi/index.php>

In Table 6 RTU credit points are given in *ECTS*, bet Northern Kentucky University credit points in - in USA semester hours.

Both programs are similar. Courses of Kentucky University are of smaller granularity than the ones at RTU. Deeper analysis of Northern Kentucky University program shows that it is based on SAP technology. In RTU IBM, Microsoft and Oracle technologies are used; however, recent agreements with SAP will allow including also SAP technologies in the teaching process. The spectrum of subjects is almost equal in both programs.

Table 6. Comparison of Business Informatics in the Northern Kentucky University's and RTU

„Business Informatics” <i>Northern Kentucky University</i>			„Business Informatics” <i>Riga Technical University</i>	
<i>USA semester hours</i>	<i>Course</i>		<i>Course</i>	<i>ECTS</i>
3	Information Systems in Organizations		Enterprise Architecture and Requirements Engineering	6
3	Systems Analysis and Design		Advanced Data Technologies	6
3	Database Management Systems		e-Business Solutions	6
3	Data Communication		Mobile, Grid, and Ambient Networking or Storage Networking or Networking Technologies in Education	3
3	Electronic Commerce		Enterprise Information Technology Architecture, Applications, and Integration	6
3	Information Technology Project Management		Portfolio Management Technologies	6
3	MBI 685 – Corporate IS Management		Information Technology and Strategy	6

Comparison to Business Informatics at University's of Vienna (Austria): Master degree in Business informatics.

This program is developed on the bases of BI-Net Business informatics model program: European degree in Business Informatics.

Reference:

http://spl.univie.ac.at/informatik/fileadmin/user_upload/spl5/ENTER_DAY_2009/Praesentationen/Wirtschaftsinformatik_ENTER_DAY_2009.pdf 19.lpp.

The program of University of Vienna was taken as a basis for development of Business Informatics at RTU. Almost all subjects of the program are included in RTU Business Informatics. The comparison of both programs is represented in Table 7.

Table 7. Comparison of Business Informatics at the University of Vienna and RTU

„Business Informatics” (University of Vienna)	„Business Informatics” (Riga Technical University)
Structural Science (6 ECTS)	Systems theory (6 ECTS)
Business Science (6 ECTS)	Distributed over several courses, the largest proportion is in „Portfolio Management Technologies” (6 ECTS) and „Business Analytics” (6 ECTS)
Information management (6 ECTS)	Distributed over courses „Enterprise Architecture and Requirements Engineering” (6 ECTS), „Advanced Data Technologies” (6 ECTS) and „Business Analytics” (6 ECTS)
Information Systems Architecture (6 ECTS)	Distributes over courses „Enterprise Architecture and Requirements Engineering” (6 ECTS), „Business Process Management and Engineering” (6 ECTS) and „Enterprise Information Technology Architecture, Applications, and Integration” (6 ECTS)
Business Process Management (6 ECTS)	Business Process Management and Engineering (6 ECTS)
Supply Chain Management (6 ECTS)	In courses: „e-Business Solutions” (6 ECTS), „Enterprise Architecture and Requirements Engineering” and „Service Science, Management and Engineering” (6 ECTS)
Organizations, Technologies and E-Commerce (6 ECTS)	e-Business Solutions (6 ECTS)
Human Factors in Information Systems (6 ECTS), Soft Facts in Knowledge Management, (6 ECTS), Knowledge Management (6 ECTS), Specializing Practical Training in Knowledge Management (6 ECTS)	Knowledge Management Systems (6 ECTS)
Agents in E-Commerce (6 ECTS)	Artificial Intelligence in Business (6 ECTS)
Workflow Management Systems and Business Process Modelling (6 ECTS)	Included into courses „Business Process Management and Engineering” (6 ECTS) and „Enterprise Information Technology Architecture, Applications, and Integration” (6 ECTS)
Knowledge Engineering (6 ECTS)	Included into courses „Business Analytics” (6 ECTS) and „Artificial Intelligence in Business” (6 ECTS)

Table 7 shows that the program of University of Vienna has a very large module of Knowledge Management (24 ECTS). In RTU program there are Knowledge Management Systems (6 ECTS). On the other hand the RTU program has some subjects that are not included in the University of Vienna program, such as Business Analytics, Service science Management, and Engineering, Client Relationship Management and Social networks that partly cover some of the knowledge management subjects that are not included in Knowledge Management Systems. Both study programs has the same amount of ECTS for Master Thesis. In one of the study plans of RTU the Master Thesis are positioned in the same semester as in University of Vienna in order to promote student exchange.

6.4. Comparison to study programs in Latvia

In Latvia English term „Business Informatics” is used in the description of the branch “Economics Informatics” of academic bachelor program of Management Sciences of the University of Latvia http://home.lu.lv/~urozev/lapas/bak_progr.htm. From the point of view of the study cycle and contents (there are no integrated subjects in the University of Latvia program) both programs are not comparable. The most similar to Business Informatics are

academic master study programs “Computer Systems” and “Information Technology” at the Faculty of Computer Science and Information Technology at RTU. Still the business Informatics differs from these programs in its mandatory part and in the way how compulsory elective courses are organized. Business Analytics, Service Science, Management, and Engineering; Business Process Management and Engineering as well as several compulsory elective courses are available only in Business Informatics. In Table 8 study courses of Computer Systems and Business Informatics are amalgamated. The most similar to business Informatics is Computer Systems with concentration in Computer Systems Design operated by the Department of Systems Theory and Design <https://info.rtu.lv/rtupub/prg?ukNoteikId=2510>.

Table 8. Lists of courses of the RTU study programs „Computer systems” and „Business Informatics”

„Computer Systems” <i>Riga Technical University</i>		„Business informatics” <i>Riga Technical University</i>	
<i>ECTS</i>	<i>Course</i>	<i>Course</i>	<i>ECTS</i>
6	Software Metrology and Planning Models	e-Business Solutions	6
6	Large Databases	Advanced Data Technologies	6
6	Development Methods of Applied Intelligent Software Systems	Enterprise Information Technology Architecture, Applications, and Integration	6
6	Object-Oriented System Analysis	Portfolio Management Technologies	6
6	Artificial Intelligence	Artificial Intelligence in Business	6
6	Network Software	Storage Networking	3
6	Programming of Processes	Quality, Risk and Security Technologies	6
3	Advanced Software Technologies (scientific seminar)	Enterprise Architecture and Requirements Engineering	6
6	Evolution of Object-Oriented Software	e-Services in Education and Science	6
6	Special Data Processing Technologies	Business Analytics	6
6	Requirements Engineering	Knowledge Management Systems	6
1,5	Basics of Occupational Safety	Research Methods for Business Informatics	3
6	Theory of Software Reliability	Systems Theory	6
3	Applied Software Systems (scientific seminar)	Customer Relationship Management and Social Network Technologies	6
6	Theory of Systems and Processes	Business Process Management and Engineering	6
3	Computer System Design (scientific seminar)	Service Science, Management and Engineering	6
3	Computer System Design Methods (scientific seminar)	Software Applications in Education	6
6	Information Systems and CASE Tools	Mobile, Grid, and Ambient Networking	3
6	Knowledge Management	Networking Technologies in Education	3
6	Software Quality	Information Technology and Strategy	6
6	Workshop of Applied Computer Science		
6	CASE Tools for Object-Oriented System Development		
6	Methods and Evolution Trends of Applied Computer Science		
6	Computer Aided Solution Processing		

The University of Latvia runs the program Computer Science http://www.df.lu.lv/fileadmin/user_upload/lu_portal/projekti/df/dokumenti/magprogr/mag_p

rogr_satur.pdf. with 5 branches. The compulsory part of the program is comparable to several subjects of compulsory part of Business Informatics, but it is much smaller than in Business Informatics: 24 vs. 63 ECTS. None of Computer Science program's branches completely corresponds to Business Informatics.

Table 9. List of courses of the University of Latvia „Computer sciences” and RTU „Business Informatics”

„Computer Sciences” <i>University of Latvia</i>		„Business informatics” <i>Riga Technical University</i>	
<i>ECTS</i>	<i>Course</i>	<i>Course</i>	<i>ECTS</i>
6	Advanced Programming Technologies	e-Business Solutions	6
6	System modelling	Advanced Data Technologies	6
6	Software Testing	Enterprise Information Technology Architecture, Applications, and Integration	6
6	Specification Languages		
6	IT project management		
6	Programming Web Applications	Portfolio Management Technologies	6
6	Data Warehouses	Artificial Intelligence in Business	6
6	Enterprise Information Systems	Storage Networking	3
3	Graph Theory	Quality, Risk and Security Technologies	6
6	Computer graphics	Enterprise Architecture and Requirements Engineering	6
6	Software Testing	e-Services in Education and Science	6
6	System Design	Business Analytics	6
3	Software Quality	Knowledge Management Systems	6
6	Design and analysis of efficient algorithms	Research Methods for Business Informatics	3
6	Advanced digital design	Systems Theory	6
6	UML based software development	Customer Relationship Management and Social Network Technologies	6
6+6	Computer Networks I, II	Business Process Management and Engineering	6
3+3	Automata, Algorithms and Formal Languages II I, II	Service Science, Management and Engineering	6
6	Operating System UNIX	Software Applications in Education	6
3	Applied cryptography	Mobile, Grid, and Ambient Networking	3
3	Number Theory		
6	Knowledge Engineering	Networking Technologies in Education	3
		Information Technology and Strategy	6

The overall conclusion is that the study program "Business Informatics" has it obvious and actual niche among the national and international study programs.

7. Students

7.1. General information about the students

Business Informatics has two intakes per year. In the first study year the studies in Business Informatics started 13 students (7 in the summer intake and 6 in the winter intake – Table 10). One student left for the academic vacation due to her job in USA. There were two international students in the program. Some courses of the program were attended by ERASMUS students and students of RTU Riga Business School and The University of Latvia.

Table 10. Total Number of students in 2010/11.

<i>Study program</i>	<i>Semester</i>	<i>Number of the entrants</i>	<i>Gone on academical vacation</i>	<i>Graduates</i>
Business Informatics	Fall semester	7	1	0
	Spring semester	6	0	0
	Total	13	1	0

7.2. Number of dropout students on the first study year

One student dropped out in the second semester. He mentioned family reasons and work conditions as reasons (Table 11). One international student has changed studies at RTU to his homeland university in Ankara.

Table 11. Number of dropout students in 2010/11 (from the intake reflected in Table 10)

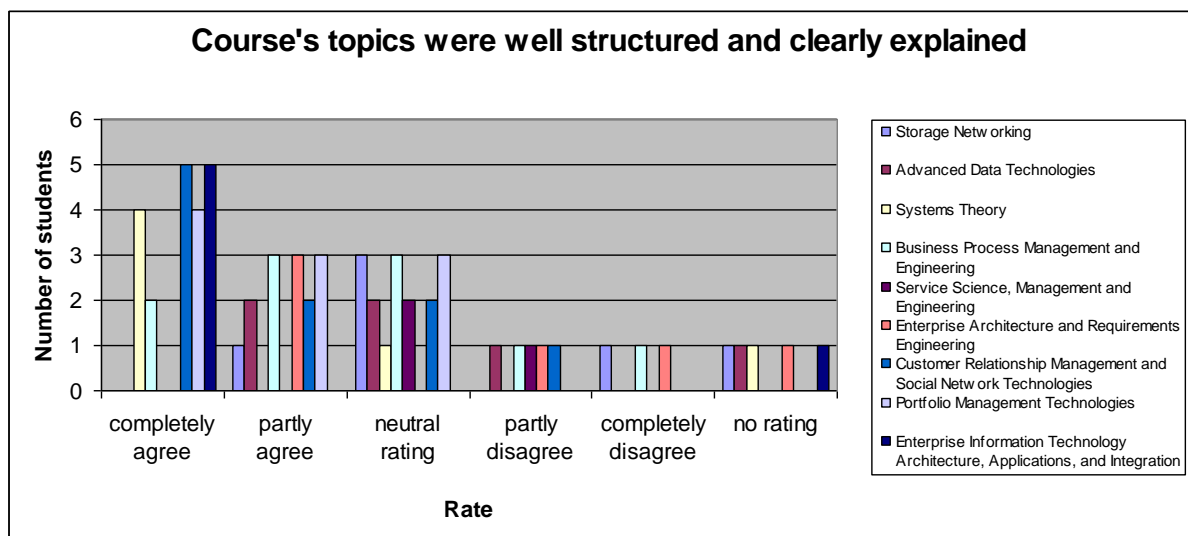
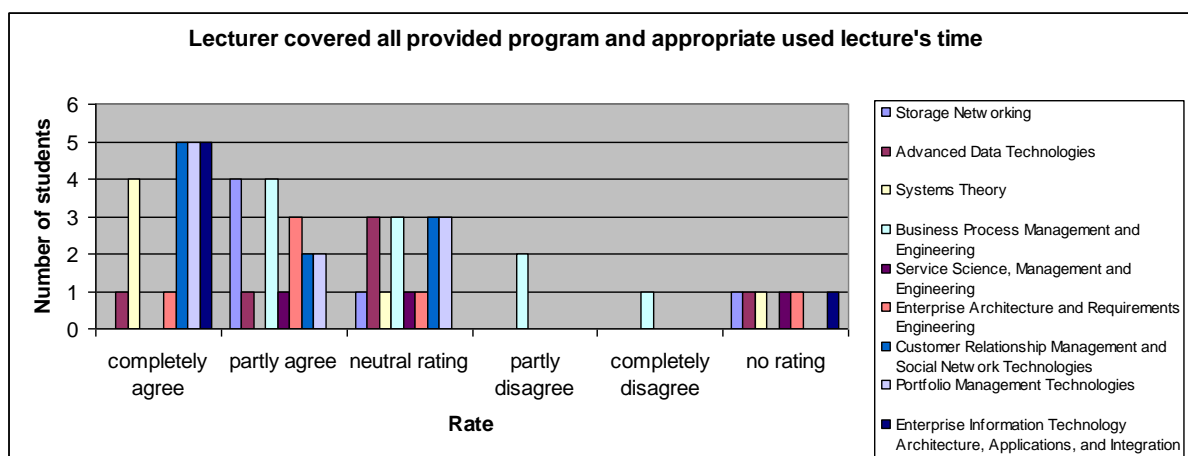
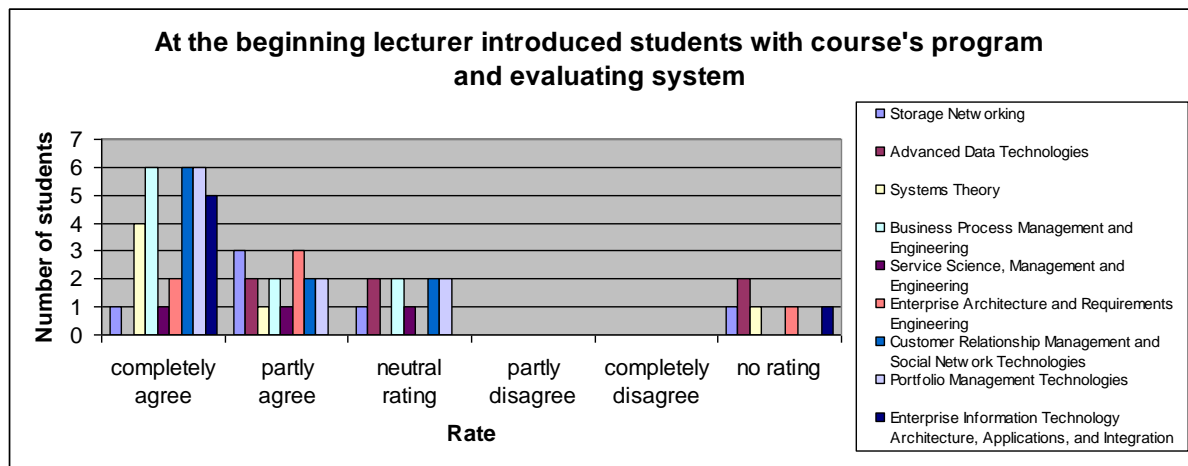
<i>Study program</i>	<i>Semester</i>	<i>Number of dropout students</i>	<i>Moved to another University</i>
Business Informatics	Fall semester	0	0
	Spring semester	1	0
	2011/12	n/a	1

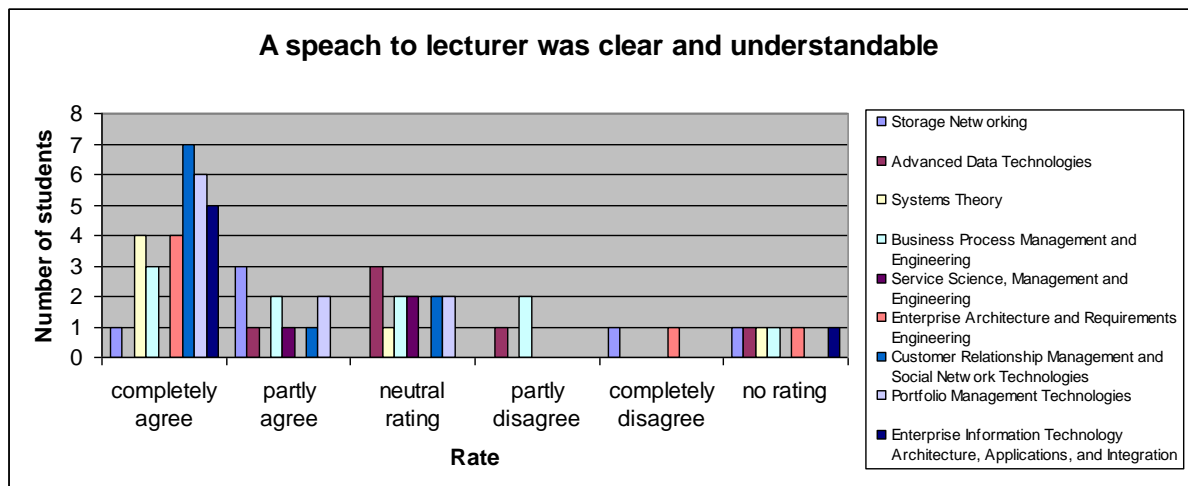
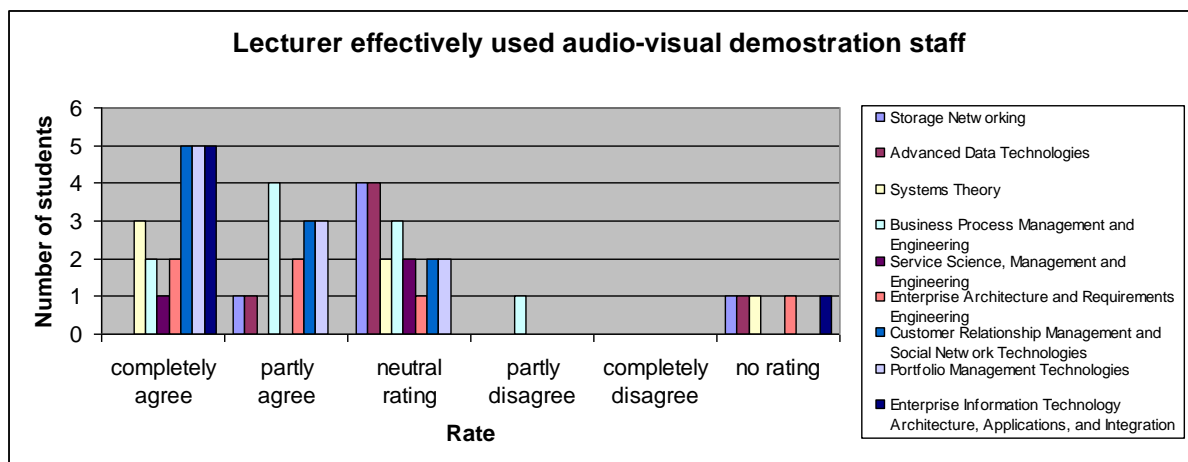
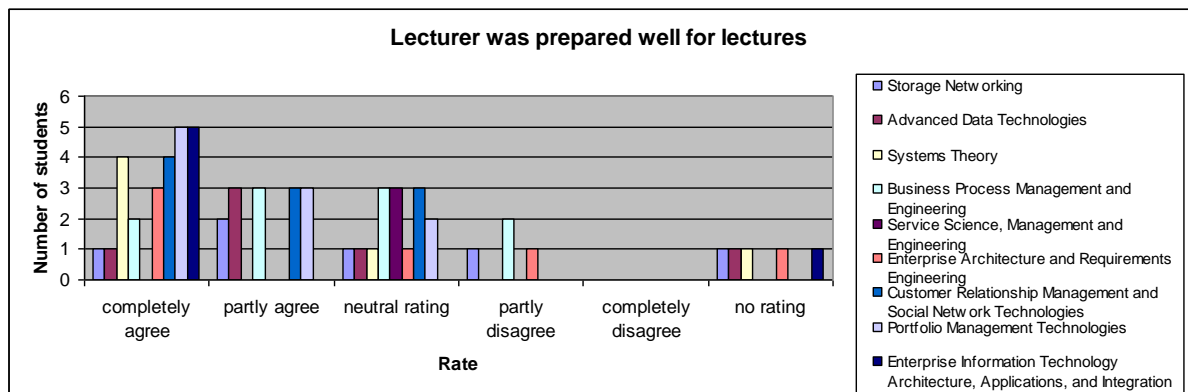
7.3. Number of graduates

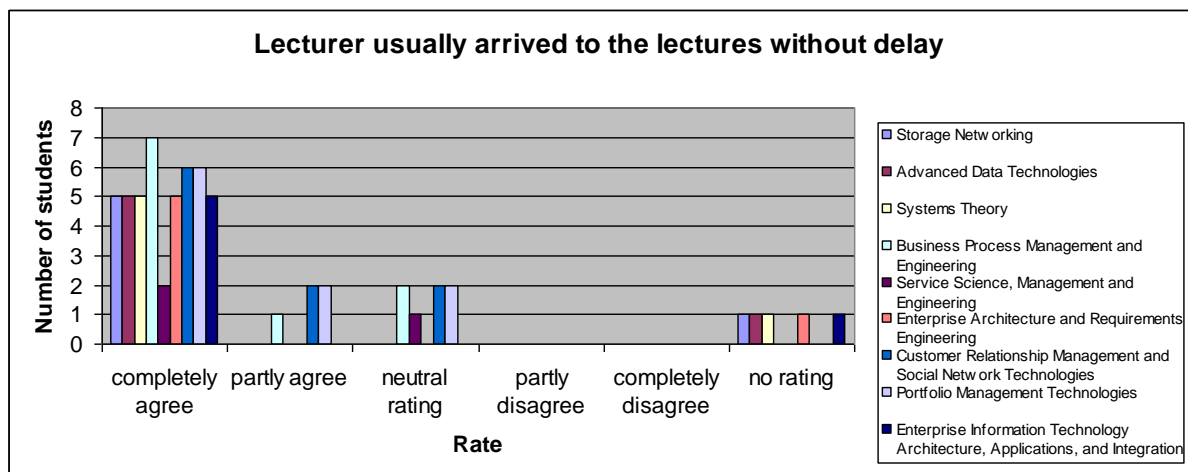
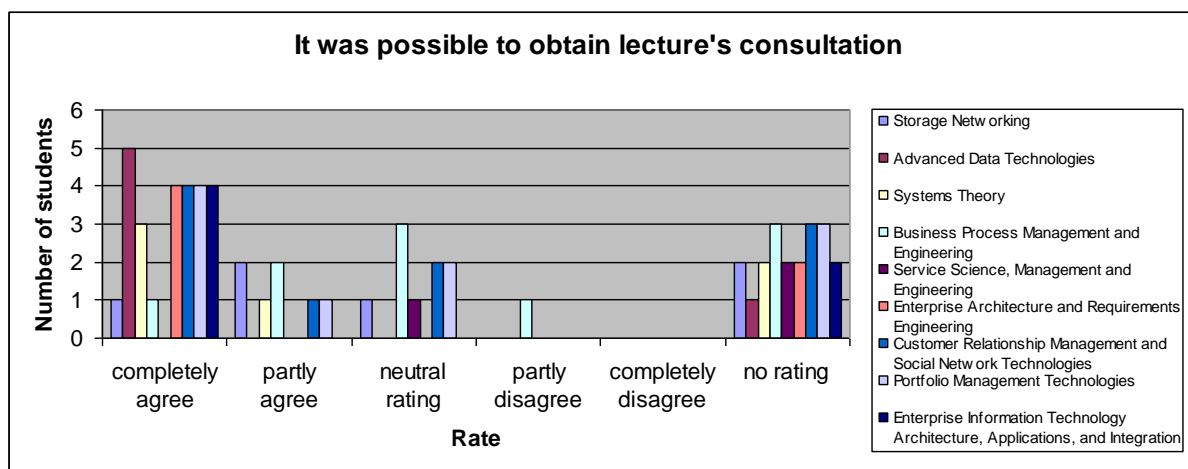
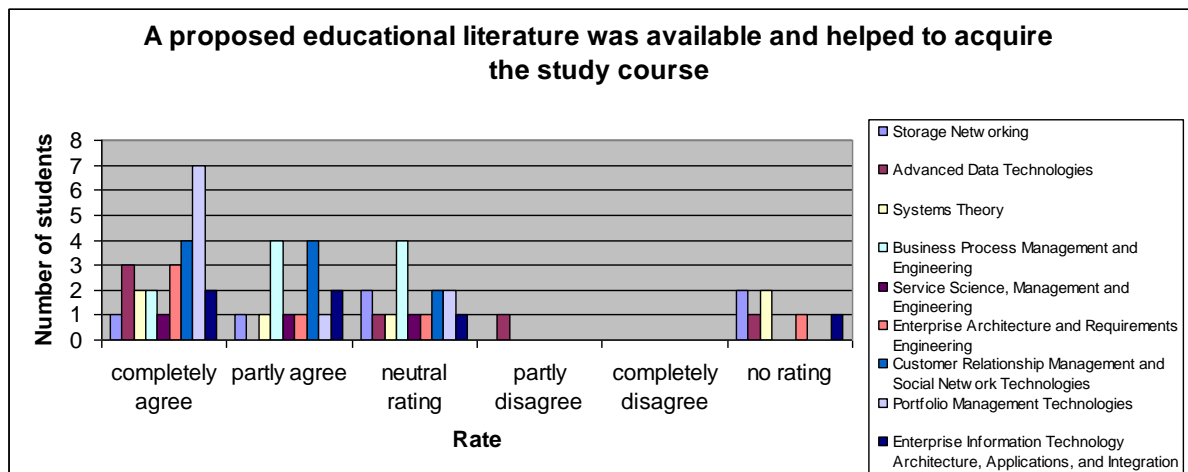
There are no graduates from the program yet. We expect 5 graduates in 2012 and 16 graduates in 2013.

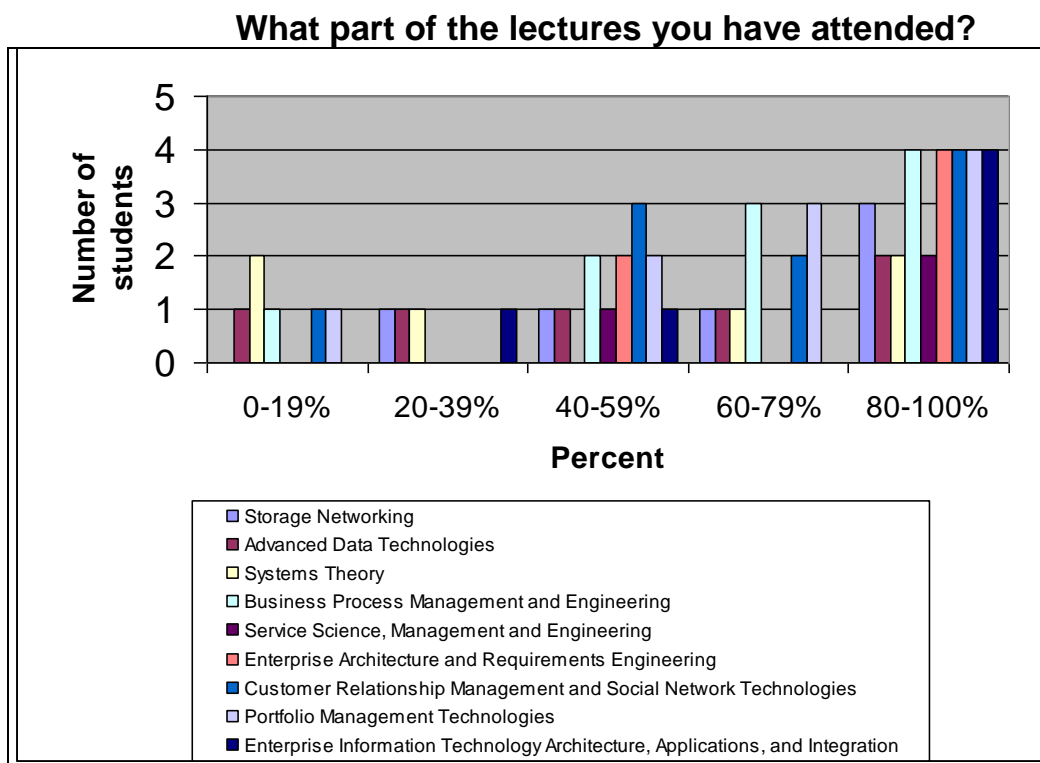
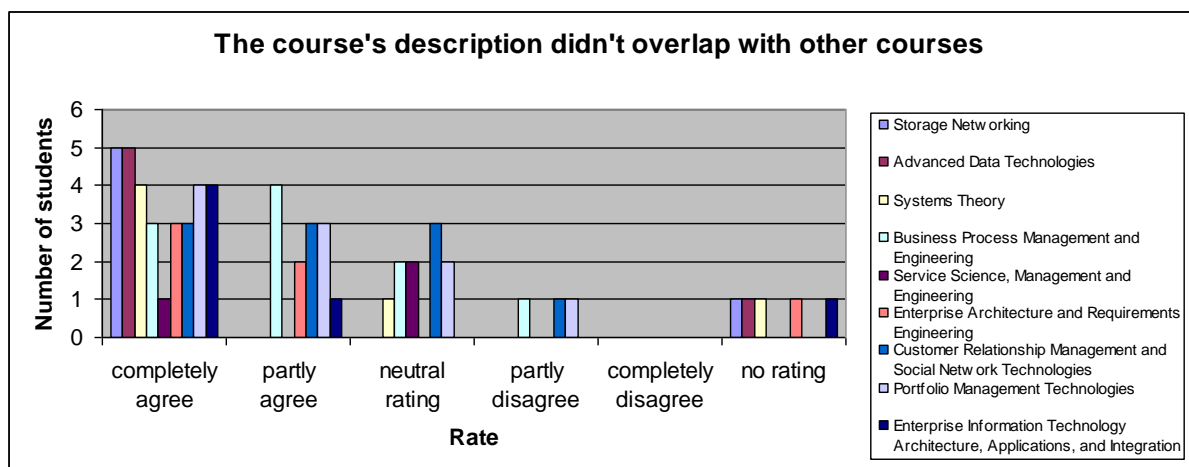
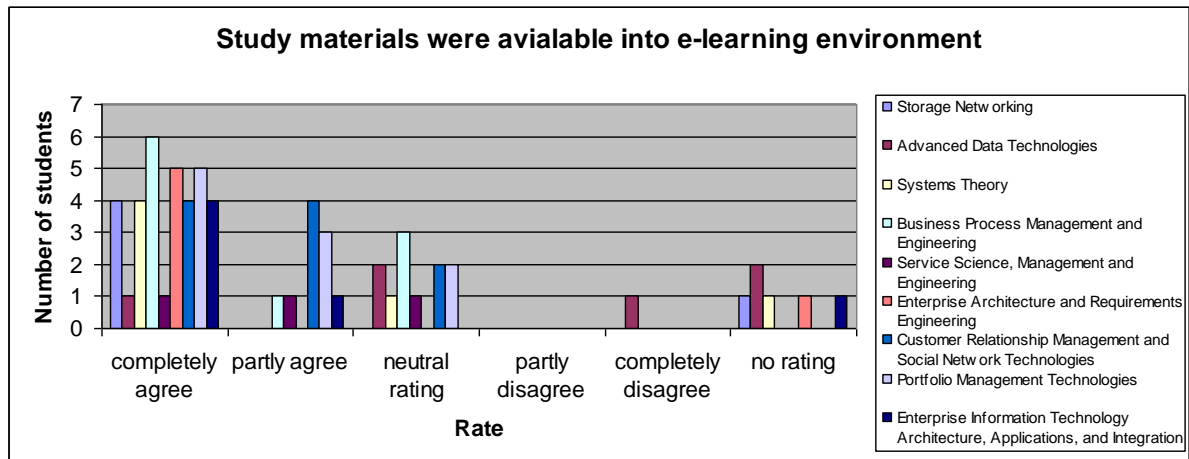
7.4. Students' surveys and their analysis

Student surveys are done regularly (at the end of each semester) in the ORTUS environment. The results of the surveys are available to teachers and administration. In several courses mid-term surveys are used. The results of mid-term surveys are available to teachers and study program director (Appendix 7). Below the data from surveys in ORTUS for study year 2010/2011 are represented.









The results show that the satisfaction level of students and their attendance rate are rather high, while there still is the room for improvement. The load of students is high. The smaller amount of courses per semester has been discussed with the students; however, they were not inclined to lengthen their studies; so the changes in study length were not introduced. Actually only two students have chosen the part time studies. Together with applicants, the lighter schedule was discovered which is achieved by taking some courses of the program together with the precondition courses via Continuing Education Department one semester before entering into the program.

Diverse background of students is a challenge, but the teachers are prepared for it psychologically and methodologically and so far achieve the intended results successfully.

7.5. Graduates' surveys and their analysis

The study program has no graduates yet. There is an aim to develop a graduate database and to keep continuous and close cooperation with them by getting from them feedback, learning from their professional experience, and offering continuing education possibilities.

7.6. Students' participation in the study process improvement

Students can participate in study program improvement by directly expressing their wishes to teachers, study program director, or heads of structural units. They can also influence the study process via student unit represented at the Council of the Faculty of Computer Science and Information Technology. They can express their suggestions during the surveys as well. Each semester students are questioned concerning strengths and weaknesses of the courses, their applicability in practice and desired changes (Appendix 7).

Students participate also in study process improvement by applying their newly acquired competences, when the business cases in assignments or examinations are taken from the Business Informatics program. This way students suggestion with respect to process improvement have already been implemented during the 2011/12 fall intake.

8. Assessment/evaluation of the study program's academic personnel

8.1. General information about the academic personnel

The information about the personnel is amalgamated in Tables 12-15.

Table 12. Teaching staff of the study program Business Informatics (names of teachers of compulsory courses (part A of the program) are represented in bold)

<i>Nr.</i>	<i>Name, surname</i>	<i>Have PhD</i>	<i>Basic employment in RTU</i>
1.	Dr.sc.ing. Gundars Alksnis	+	Docent (elected)
2.	Dr.sc.ing. Alla Anohina-Naumeca	+	Researcher (elected), Docent (elected)
3.	Mg.sc.ing. Dace Apsvalka	-	Researcher (elected)
4.	M.sc.ing. Ainars Auzins	-	Researcher

<i>Nr.</i>	<i>Name, surname</i>	<i>Have PhD</i>	<i>Basic employment in RTU</i>
5.	PhD.cand. Ieva Azanda	-	-
6.	Mg.oec ² . Janis Bergs	-	-
7.	M.sc.ing. Ilze Birzniece	-	Researcher (elected), doctoral student
8.	Ph.D James Bowen	+	-
9.	M.sc.ing. Ligita Businska	-	Assistant of the Scientific Work (elected), doctoral student
10.	Dr.sc.ing. Janis Eiduks	+	Associate Professor (elected)
11.	Dr.sc.ing. Janis Grabis	+	Director of the Institute of Information Technology (elected) Professor (elected)
12.	Dr.oec. Janis Grevins	+	Director of the RTU Riga Business School (RBS) (elected)
13.	Dr.habil.sc.ing. Janis Grundspenkis	+	Director of the Institute of Applied Computer Systems (elected) Professor (elected)
14.	M. Voldemars Innus	-	-
15.	Dr.sc.ing. Marite Kirikova	+	Professor (elected)
16.	Dr.paed. Anita Lanka	+	Professor (elected)
17.	Dr.sc.ing. Egons Lavendelis	+	Researcher
18.	Mg.oec. Greg Mathers	-	-
19.	Dr.habil.sc.ing. Leonids Novickis	+	Professor (elected)
20.	M.comp. Kaspars Osis	-	Researcher (elected), PhD candidate
21.	M.sc.ing., M.oec. Ludmila Penicina	-	Assistant of the Scientific Work (elected), Systems analyst, doctoral student
22.	Msc.ing. Peteris Rudzajs	-	Assistant of the Scientific Work (elected), doctoral student
23.	Dr.sc.ing. Ilmars Slaidins	+	Professor (elected)
24.	Dr.sc.ing. Renate Strazdina	+	Leading Researcher (elected)
25.	Dr.sc.ing. Uldis Sukovskis	+	Vice-rector for Academic Affairs (elected); Professor (elected)
26.	M.sc.ing. Larisa Survilo	-	Systems analyst
27.	Dr.habil.comp. Valērijs Zagurskis	+	Professor (elected)
28.	Dr.phil. Atis Zakatistovs	+	-
29.	Mg.oec. Zigmunds Zitmanis	-	RTU Administrative Director

Table 13. Academical positions at RTU (elected)

¹ “oec” here is used as general abbreviation for different degrees in management and economics

<i>Total Number of Conductors</i>	<i>Professor</i>	<i>Assoc. professor</i>	<i>Docent</i>	<i>Others</i>	<i>Total (%)</i>
29	8	1	2	10	72%

Table 14. With doctor and master degree

<i>Total Number of Conductors</i>	<i>With doctor or habilitate doctor degree</i>	<i>With master degree</i>	<i>Together doctor and master degree</i>	<i>With doctor or master degree (%)</i>
29	16	13	29	100%

Table 15. Basic employment at RTU and elected

<i>Total Number of Conductors</i>	<i>Basic employment at RTU</i>	<i>Basic employment at RTU elected</i>	<i>Basic employment at RTU (%)</i>	<i>Basic employment at RTU elected (%)</i>
29	23	19	79%	66%

Appendix 1 represents a confirmation of staff employment at RTU.

8.2. Academic personnel qualification's compliance with the objectives

High academic qualification of the staff makes it possible to meet the study goals that are reflected in learning outcomes to be achieved by each course and the study program as a whole. The core of the staff is employed by RTU. 79% of elected academic personnel are involved in the study program excluding elective courses and Master Thesis (Table 15).

The teachers do their research concerning quality improvement of study programs. This work was presented at EQANIE (the European Quality Assurance Network for Informatics Education) conference in Vienna, February 2011. After this conference the academic staff of Business Informatics received an invitation to share their experience in study quality oriented conference in Romania.

The work in study program Business Informatics is challenging and can be compared with lecturing in foreign university regarding contents, diversity of students, and study language.

8.3. Academic personnel's policy for the next 6 years

The academic staff of Business Informatics plan to continue to improve their academic and scientific skills individually and as a team.

In 2010/11 two teacher accepted higher administrative responsibilities, one of the teachers became a scientific project manager of the Business Process branch of scientific projects of IT Competence Center of Latvia, one teacher is elected as a docent. Two teachers took professional courses in SAP and IBM technologies, one teacher started her doctoral studies.

The policy concerning the academic staff for the next 6 years is as follows:

1. To maintain and continue to improve high scientific, professional, and methodological qualification of the teachers.
2. To gradually balance teaching load between young and experienced teachers (currently the experienced teachers have a considerably higher teaching load, so their knowledge and know-how to particular extent have to be transferred to the teachers that currently are doctoral degree candidates and doctoral students).

3. To continue to involve in the study process representatives from other universities/countries.
4. As far as possible to facilitate field work of teachers in other universities/countries.
5. To continue to invite doctoral students to participate into the program in order to ensure availability of teachers in future.
6. To give a possibility for teachers to creatively introduce new study methods, topics and courses.
7. To maintain team spirit among the teachers of the program.

9. Financing sources and provision of the infrastructure

Business Informatics students pay for their studies. The tuition fee is included in the budget of RTU and its structural units according to financial regulations of the university. Thus, the facilities of RTU and its structural units are available for Business Informatics students. The amount of tuition fee for new entrants can be changed each year and depends on financial circumstances at RTU, in Latvia, and worldwide.

The studies of students are supported by resources of Scientific Library of Riga Technical University which provides advanced study environment and services. The library contains most of materials needed for studies either as hard copies or electronically. Electronic resources of the library are also available for students via ORTUS. The students use facilities of IBM Applied Research and Advanced Studies Center at Meža 1/4-538. There are 12 state-of-art PCs in the classroom equipped with software, such as DOORS, Websphere BM, etc. Facilities of Computing Center of the Faculty of Computer Science and Information technology are also available for Business Informatics Students.

The study program Business Informatics is implemented by the following Riga Technical University departments:

- Department of Systems Theory and Design, Institute of Applied Systems, Faculty of Computer Science and Information Technology, RTU
- Department of Applied Computer Science, Institute of Applied Systems, Faculty of Computer Science and Information Technology, RTU
- Professor's group of Applied Software Systems, Institute of Applied Systems, Faculty of Computer Science and Information Technology, RTU
- Department of Management Information Technology, Institute of Information Technology, Faculty of Computer Science and Information Technology, RTU
- Computer Networks professor's group, Department of the Computer Networks and Systems Technology, Institute of Computer Control, Automation and Computer Engineering, Faculty of Computer Science and Information Technology, RTU
- RTU Riga Business School
- RTU Humanitarian Institute
- Department of Radioelectronics, Faculty of Electronics and Telecommunications, RTU

10. External relations

10.1. Collaboration with employers

Collaboration with employers occurs in the following ways:

- Cooperation with professional communities and associations (IT Cluster, IIBA Latvian Chapter, LETERA, Latvian Technology Park, Latvian Employers Confederation) in order to learn their opinion about the developments in labor market and the opportunities of Business Informatics students in it. The study program director regularly takes part in meetings of IT Cluster and IIBA Latvian Chapter.
- Cooperation with companies in the study process: In 2010/11 representatives of such companies as *Digital Mind*, *My ABCm*, *QPR*, and *Hortus Digital* participated in Business Informatics study courses;
- Cooperation with companies in scientific projects, e.g., RTU scientific project on lightweight ABC with *Digital Mind*.
- Cooperation with companies in Master Thesis development (agreement with *Digital Mind*) (Supplementary Appendix, 9)
- Cooperation with companies in continuing education on business informatics topics (e.g. teaching staff lectures on Business Process Modelling at *FMS Ltd.*, summer 2011).
- Helping companies to attract new employees (agreement with *Digital Mind*)
- Cooperation with companies in terms of using their technologies and methods (*IBM*, *Microsoft*, *SAP*, *Oracle*, *Vitech Corporation*).
- Employers' surveys (2011 - *FMS*, *Digital Mind*, *Lattelecom Technology*, *Datorzinibu centrs*, *Rix Technologies*, *ZZDats*).

The Business Informatics team appreciates collaboration with employers, because it helps to understand trends of the labor market, specific needs for specific companies, and it helps to get to know closer positional employers.

10.2. Collaboration with other universities

In terms of inter-institutional agreements the study program Business Informatics is implemented in cooperation with University at Buffalo (USA) and Ottawa University (Canada). The main form of cooperation is involvement of the staff of above-mentioned universities in the study process in Latvia.

There is a well established cooperation with the study program of Business Informatics at the University of Rostock. The cooperation agreement among the universities is signed. Both sides are involved in an international scientific project funded by Baltisch-Deutsche Hochschulkontor, the first steps in development of students exchange conception are made.

Since the first steps of program development gradually the cooperation with the University of Vienna is enlarged. The closest goal is establishing an agreement concerning the student exchange.

In terms of inter-institutional agreements the courses of RTU Business Informatics are attended by students of the University of Latvia and ERASMUS students.

11. Continuation of studies in the case of study program cancellation

The faculty of Computer Science and Information Technology, RTU approves that if Business Informatics is cancelled students will be able to continue their studies in study program Computer Systems „Datorsistēmas” (DMD0) or Information Technology „Informācijas tehnoloģija” (DMI0) (Appendix 10).

RTU Riga Business Scholl approves that in case Business Informatics of cancelation students will be able to continue their studies in study program Business Administration „Uzņēmumu un organizāciju vadīšana” (RIGV0) (Appendix 10).

12. Development plan of the study program

12.1. SWOT analysis

The main issues detected by SWOT analysis after the first study year is reflected in Table 16.

Table 16. SWOT analysis table

S	W
<ol style="list-style-type: none">1. The program was developed taking into consideration the best practices of scientific research on Business Informatics study programs. Therefore the basis for knowledge synergy is incorporated in the program.2. In the most cases employers value program highly.3. Students express their satisfaction with the program.4. International students are involved in the program.5. The qualification of teachers is high.6. The teaching staff has quite high scientific potential and international recognition.7. RTU ORTUS is available for the students8. The study program has its own Webpage9. The program facilitates continuing growth of qualification of the staff.10. It is possible to combine the study program with continuing education.11. Cooperation of different organizational units enriches knowledge and skills of the teaching staff.12. Pre-condition courses are available that give an opportunity to enter into the program for students with different backgrounds.	<ol style="list-style-type: none">1. Students have to pay for their studies.2. In the most cases students must combine their studies with employment.3. It is not easy to advertise the program abroad.4. Flexibility of the program requires additional administrative and teaching efforts.5. Not all industrial partners understand the need for research skills of students.6. Continuing monitoring of mutual impact of study program subjects is necessary.7. Sometimes the need for precondition knowledge prevents applicants from entering into the program.
O	T
<ol style="list-style-type: none">1. To use more fully the opportunities that for Business Informatics program the annual conference on Perspectives in Business Informatics research can bring.2. To extend the scope of partners.	<ol style="list-style-type: none">1. Growing number of study programs in English may make the advertising of the program even harder.2. Interdisciplinary features of the program may cause difficulties in its formal

3. To enter into cooperation that can lead to double degrees. 4. To introduce new concentrations into the program 5. To introduce new cooperation forms with industry. 6. There is an opportunity to introduce Doctoral Studies in Business Informatics in Latvia	classification. 3. Fast carrier growth of the teachers may cause for them the shortage of time for Business Informatics 4. Fast carrier growth of students may cause for them the shortage of time for finishing studies in Business Informatics 5. Further problems to finance education in Latvia may threaten the existence of organizational units involved in Business Informatics study process.
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12.2. Activities for development of the study program for the next 6 years

The activities for the further program development are represented in Table 17. Regular efforts for ensuring high quality of the study program's quality reflected in the previous sections of this document will be continued in the future, too. Currently the program director is responsible for coordination of these activities.

Table 17. Program development activities in the next 6 years

<i>Nr.</i>	<i>Tasks</i>	<i>Deadline/indicator</i>
1.	Implementation of the new conception of Master Thesis	2011 - 2012
2.	Enlarge cooperation with other universities	At least one new partner per year
3.	To provide opportunity for doctoral students to study in Local or Foreign Business Informatics program in Latvia.	2017
4.	To develop cooperation model with alumni and supporting ICT conception.	2013
5.	To develop knowledge management system for supporting precondition courses of Business Informatics program.	2011 - 2012
6.	To develop the system and for visualization of information about the initial knowledge of Business Informatics students and a prototype of corresponding ICT solution.	2012 – 2013
7.	To develop course linkage monitoring system and supporting ICT solution	2013 - 2015
8.	To develop ICT solution for supporting course planning process in order to cooperate with programs that run courses in a shorter than one semester time scale.	2014 -2016
9.	To develop ICT solution for supporting internal audit of study courses.	2015 – 2017
10.	To accomplish internal audit for at least one course.	Starting with 2015
11.	To perform knowledge audit on the program level at least once in 3-5 years.	2015 – 2016
12.	To organize discussions with groups of employers regarding development of study program goals and contents (at least once in 3 years).	Starting with 2013
13.	To develop a model that could demonstrate the programs flexibility fully	2014
14.	To strengthen teamwork principles of the study program staff, to develop a blueprint of knowledge management system of the study program.	2012 - 2017
15.	To investigate the need for new concentrations in the program (at least once per 3 years).	Starting with 2012
16.	To develop approach for promoting international recognition of scientific work of students of Business Informatics.	2011 – 2014

List of the academic personnel which is involved
in the study process

RĪGAS TEHNISKĀS UNIVERSITĀTE
Maģistra akadēmiskās studiju programmas
“Biznesa informātika” īstenošanā iesaistītā, RTU pamatdarbā un vēlētā
personāla saraksts

NR.P.K.	GRĀDS,VĀRDS, UZVĀRDS	PAMATDARBS RTU (AMATS)	VĒLĒTS
1.	Dr.(inž. zin.) Gundars Alksnis	docents	Vēlēts
2.	Dr.(inž. zin.) Alla Anohina-Naumeca	pētniece docente	Vēlēta, vēlēta
3.	Mag. (inž. zin.) Ainārs Auziņš	pētnieks	-
4.	Mag. (inž. zin.) Dace Apšvalka	pētniece	Vēlēta
5.	Mag. (inž. zin.) Ilze Birzniece	pētniece	Vēlēta
6.	Mag. (inž. zin.) Ligita Bušinska	asistente zinātniskajā darbā	Vēlēta
7.	Dr.(inž. zin.) Jānis Eiduks	asociētais profesors	Vēlēts
8.	Dr.(inž. zin.) Jānis Grabis	profesors	Vēlēts
9.	Dr. (uzņ. vad. sist.) Jānis Grēviņš	RTU RBS direktors	Vēlēts
10.	Dr. habil. (inž. zin.) Jānis Grundspenķis	profesors	Vēlēts
11.	Dr. (inž. zin.) Mārīte Kirikova	profesore	Vēlēta
12.	Dr. (ped.) Anita Lanka	profesore	Vēlēta
13.	Dr.(inž. zin.) Egons Lavendelis	pētnieks	-
14.	Dr. habil. (inž. zin.) Leonīds Novickis	profesors	Vēlēts
15.	Mag. (inž. zin.) Kaspars Osis	pētnieks	Vēlēts
16.	Mag. (inž. zin.) Ludmila Peņicina	asistente zinātniskajā darbā	Vēlēta
17.	Mag. (inž. zin.) Pēteris Rudzājs	asistents zinātniskajā darbā	Vēlēts
18.	Dr. (inž. zin.) Ilmārs Slaidiņš	profesors	Vēlēts
19.	Dr.(inž. zin.) Renāte Strazdiņa	vadošā pētniece	Vēlēta
20.	Dr.(inž. zin.) Uldis Sukovskis	prorektors, profesors	Vēlēts, vēlēts
21.	Mag. (inž. zin.) Larisa Survilo	sistēmanalītiķis	-
22.	Dr. habil. (datorzin.) Valērijs Zagurskis	profesors	Vēlēts
23.	Mag. (b. admin.) un Mag. (uzņ. d. un vad.) Zigmunds Zitmanis	RTU admin. direktors	-

Programmas direktore

M.Kirikova

RTU Personālvadības un lietvedības
daļas vadītāja

H.Šteinerte

15.09.2011.

Curriculum Vitae (CV) of the academic personnel



Europass Curriculum Vitae

Personal information

Surname / First name **Ainārs Auziņš**

Work experience

Dates **06.2011-**

Title of qualification awarded **Investigator**

Principal subjects/occupational skills covered
Execute the research work of the project: "Scientific Capacity Building of the fruit, wood and information technology sectors, providing an environmentally friendly farming solutions, product development and implementation of research with computer technology support." (PVS ID1501, Item. Nr. 2009/0228/1DP/1.1.1.2.0/09/APIA/VIAA/035).
Create qualitative data analysis methods and models
Create conceptual data model for research IT system
Participation in seminars and conferences

Name and type of organisation Riga Technical University

Branch education

Dates **04.2011- 06.2011**

Title of qualification awarded **System analyst**

Principal subjects/occupational skills covered
Create qualitative data analysis methods and models
Create conceptual data model for research IT system
Participation in seminars and conferences

Name and type of organisation Riga Technical University.

Branch education

Dates **08.2010 – 04.2011**

Title of qualification awarded **System administrator**

Principal subjects/occupational skills covered
Oversight of functionality of State Unified Computerised Land Register (SUCLR) data bases. Ensuring optimal operations of SUCLR systems. Testing quality of adapted software updates. Participating in evaluation of functionality of online mode (services) with external registers, e.g. State Land Service, Population Register, Address Register, etc. and develop recommendations for enhancement of functionality. Developing reports (accounts) from SUCLR.

Name and type of organisation Court Administration Court and Land register department.

Branch state administration

Dates **03.2003 – 05.2009**

Title of qualification awarded **Project coordinator of IT systems**

Principal subjects/occupational skills covered
Document system (IBM Lotus Notes) services manager, head of document systems development. department
Projects leadership on document systems and web solutions: analysis of business requirements and system analysis, development and coordination of system requirement specifications.
Testing and documentation of upgrades, amendments and updates.
Preparation of budget and completion control. Signing of contracts with (software) developers and performance control.
Services management – organisation and monitoring of development, testing and maintenance; data analysis of services quality indicators.

Name and type of organisation	JSC Latvenergo
Branch	information technology
Dates	02.1995 – 03.2003
Title of qualification awarded	Methodist – computer engineer
Principal subjects/occupational skills covered	Organisation of computer training classes and provision of training. Administration and oversight of local computer network and computer training class. Installation and administration of Novell NetWare and Windows servers. Technical and software support of computer engineering. Development of databases and applications in MS Access environment.
Name and type of organisation	MEC, branch of JSC Latvenergo
Branch	information technology
Dates	10.1994 – 01.1995
Title of qualification awarded	Software programmer
Principal subjects/occupational skills covered	Participation in IT development projects, document completion, information systematisation. Development of databases and applications in MS Access environment.
Name and type of organisation	AS SWH Informatīvās sistēmas, Skanstes iela 13, Rīga, LV-1013
Branch	information technology
Dates	01.1994 – 10.1994
Title of qualification awarded	System analyst and Document Designer
Principal subjects/occupational skills covered	Participation in IT development projects, document completion. Development and processing of Project proposals. Work with MS Word, MS PowerPoint, Compel, CorelDraw, MS Excel, MS Access, GRADE, etc.
Name and type of organisation	JSC SWH Rīga
Branch	information technology
Dates	07.1992 – 01.1994
Title of qualification awarded	Engineer-designer
Principal subjects/occupational skills covered	Production accessories design, improving the mechanisms for machine tools
Name and type of organisation	Central energy laboratory of SJSC Latvenergo
Branch	Power industry
Education and training	
Dates	1998-2001
Title of qualification awarded	Maģistra diploms, inženierzinātņu maģistra grāds datorzinātnēs
Principal subjects/occupational skills covered	Artificial intellect, sizable databases, modern data and knowledge bases, object oriented system analysis, theory of systems and processes, knowledge accession, demand (requirement) engineering
Name and type of organisation providing education and training	RTU DTIF LDI – information systems
Dates	1996-1997
Title of qualification awarded	Riga Technical University, Education programm featured for leading engineers

Principal subjects/occupational skills covered	Management theory, total quality management methods, business psychology, business accounting, business law fundamentals
Name and type of organisation providing education and training	RTU EEF
Dates	1988-1993
Title of qualification awarded	RTU Engineer's degree in Electrical mechanics
Principal subjects/occupational skills covered	Engineering organization, planning and management, manipulation mechanism design, complex robot control systems, electric machines and automated electric drive
Izglītības iestādes nosaukums un veids	RTU, Faculty of Robotics and Automation,
Personal skills and competences	
Mother tongue	latvian
Other language(s)	
<i>Self-assessment</i>	Russian – Proficient, English - Independent
Social skills and competences	Creative, Cool headed (smooth temper), good communication skills, good teamworking skills, helpful (ready to assist),
Organisational skills and competences	Project leadership, coordination of target work streams training organisation
Technical skills	Experience in computer hardware, installation, diagnostics and repair. Experience in servicing office equipment. Mechanic and auto mechanic skills.
Computer skills	Microsoft Office Professional – proficient, IBM Lotus Notes – proficient, MS VISIO- specialist <i>Oracle Query Builder – good, MS Project - good, MS Windows 2003 server- intermediate.</i>
Drivers licence	A, B, C, D1



Alla Anohina-Naumeca (Dr.sc.ing.)

Education

- 2002-2007. Riga Technical University, Faculty of Computer Science and Information Technology, Doctoral studies. Dr.sc.ing. in sub-field of system analysis, modelling and design of the field of information technology. Title of the Doctoral thesis: *"Development of an intelligent supporting system for adaptive tutoring and knowledge assessment"*
- 1999-2002. Riga Technical University, Faculty of Computer Science and Information Technology, Master studies. M.sc.ing. in computer systems. Title of the Master thesis: *"The comparative analysis of methodologies and methods used in business process reengineering"*. Title of the Engineer's project: *"The development and implementation of an information system with a tutoring component for techniques of business process reengineering"*
- 1995-1999. Riga Technical University, Faculty of Computer Science and Information Technology, Bachelor studies. B.sc.ing. in computer control and computer science. Title of the Bachelor work: *"The development and implementation of the algorithm for decomposition of an event tree"*
- 1984-1995. 53rd Secondary school of Riga

Additional

- 31.01.2011-20.06.2011. "University didactics: contemporary theory and practice", Faculty of Education, Psychology and Art, University of Latvia, Riga, Latvia (Cert.No.:015064 20.06.2011)
- 16.03.2011. Inta Lemeshonoka workshop "Development of students' self-motivation and career in learning process" and Zane Olina workshop "Creative methods in learning process", Riga Technical university, Riga, Latvia
- 22.09.2010. 4 hours long workshop "Microsoft® SharePoint® 2010-New Path Towards Business Productivity", Hotel "Albert", Riga, Latvia
- 13.09.2010.-20.12.2010. "Lecturers' professional competence for innovation in the European Higher Education Area", Faculty of Education, Psychology and Art, University of Latvia, Riga, Latvia (Cert.No.: 013515 20.12.2010)
- 14.04.2009. Dr.oec.Linda Manning (University of Ottawa) 8 hours long pedagogical workshop "Improvement of pedagogical skills", Riga Technical University, Riga, Latvia (Cert.No.:TA0434 20.04.2009)
- 06.02.2009. Passed exam "72-630 Configuring Microsoft Office SharePoint Server 2007", Baltic Computer Academy, Riga, Latvia
- 18.09.2008. Workshop (4h long) "Microsoft Office SharePoint Server 2007", Microsoft Innovation Centre, Riga, Latvia
- 02-05.2008. Completed a 105 academic hour English course at Strong Mid-Intermediate level, Satva Ltd., Riga, Latvia (Cert. No:012836 29.05.2008)
- 11.2007-02.2008."Developing competence of academic staff in the fields of pedagogy and IT", 160 academic hours, Humanitarian Institute in cooperation with Faculty of Electronics and Telecommunications, Riga Technical university, Riga, Latvia (Cert.No.: PA 047296 15.02.2008)

- 09.2007- 01.2008. Completed a 93 academic hour English course at Strong Mid-Intermediate level, Satva Ltd., Riga, Latvia (Cert. No:013879 24.01.2008)
- 05-06.2006. The learning course “RTU Blackboard” (2KP) in the framework of the ESF project „E-studiju platformas izveide RTU inženierzinātņu studiju programmām” VPD1/ESF/PIAA/04/APK/3.2.3.2./0057/0007, Riga Technical university, Riga, Latvia (Cert.No.: TA 002143)
- 11.2004- 01.2005. Completed a 50 academic hour English course at Intermediate level, Satva Ltd., Riga, Latvia
- 02-04.2002. Completed a 50 academic hour English course at Intermediate level, Satva Ltd., Riga, Latvia
- 03-07.2001. Completed a 100 academic hour English course at Pre-intermediate level, Satva Ltd., Riga, Latvia

Teaching courses

For Latvian students:

Since 2010 "Software Applications in Education" 1st year master studies (course of limited choice)

Since 2010 "Configuring and Administering Microsoft Office SharePoint Server" 2nd year bachelor studies (course of free choice)

Since 2007 "Methods of Systems Theory" 3rd year bachelor studies (compulsory course)

Since 2004 "Fundamentals of Artificial Intelligence" 3rd year bachelor studies (compulsory course)

For foreign students:

"Fundamentals of Artificial Intelligence"

"Methods of Systems Theory"

Publications

1. **Anohina-Naumeca, A.**, Milasevicha, S. Studying Possibilities to Use Several Experts' Maps in the Concept Map Based Knowledge Assessment System. Proceedings of the 12th International Conference on Computer Systems and Technologies and Workshop for PhD Students in Computing on International Conference on Computer Systems and Technologies, ACM International Conference Proceeding Series, **2011** (pieņemts).
2. **Anohina-Naumeca, A.**, Grundspenkis, J., Strautmane, M. The Concept Map Based Assessment System: Functional Capabilities, Evolution, and Experimental Results. International Journal of Continuing Engineering Education and Life-Long Learning, Vol. 21, No. 4, **2011**, pp.308-327.
3. **Анохина-Наумец, А.**, Лукашенко, Р. Интеллектуальная система оценивания знаний: модель студента и методика экспериментальной проверки алгоритма адаптации. Образовательные технологии и общество, том 14, номер 2, **2011**, с.346-362 (krievu valodā).
4. **Anohina-Naumeca, A.**, Lukassenko, R., Skripkins, D. Conception of the Animated Interface Agent for the Concept Map Based Intelligent Knowledge Assessment System. Scientific Journal of Riga Technical University „Computer Science. Applied Computer Systems”, 5th series, RTU Publishing, Riga (pieņemts).
5. **Anohina-Naumeca, A.**, Strautmane, M., Grundspenkis, J. Development of the Scoring Mechanism for the Concept Map Based Intelligent Knowledge Assessment System. Proceedings of the 11th International Conference on Computer Systems and Technologies and Workshop for PhD Students in Computing on International Conference on Computer Systems and Technologies, ACM International Conference Proceeding Series, Vol. 471, ACM Press, **2010**, pp. 376-381.

6. Lukashenko, R., **Anohina-Naumeca, A.** Development of the Adaptation Mechanism for the Intelligent Knowledge Assessment System Based on the Student Model. Proceedings of EDULEARN'10 Conference, July 5-7, **2010**, Barcelona, Spain, pp. 005149-005149.
7. **Anohina-Naumeca, A.**, Grundspenķis, J., Lavendels, J., Šitikovs, V., Vinogradova, V. Modularizācijas loma studiju programmas "Datorsistēmas" pilnveidošanā. RTU Lietišķo datorsistēmu institūta rakstu krājums "Izglītības kvalitāte", RTU izdevniecība, Rīga, **2010**, pp.13-22.
8. Lukashenko, R., **Anohina-Naumeca, A.**, Vilkelis, M., Grundspenķis, J. Feedback in the Concept Map Based Intelligent Knowledge Assessment System. Scientific Journal of Riga Technical University „Computer Science. Applied Computer Systems”, Vol.43, 5th series, RTU Publishing, Riga, **2010**, pp.17-26.
9. **Anohina, A.**, Grundspenķis, J. Evaluating Students' Concept Maps in the Concept Map Based Intelligent Knowledge Assessment System. Lectures Notes in Computer Science, Vol. 5968, Advances in Databases and Information Systems (J.Grundspenķis, M.Kirikova, et all, eds.), Germany: Springer, **2010**, pp.8-15.
10. Vilkelis, M., Lukashenko, R., **Anohina, A.** Technical Evolution of the Concept Map Based Intelligent Knowledge Assessment System. Proceedings of the Workshop on Intelligent Educational Systems and Technology-Enhanced Learning (13th East-European Conference on Advances in Databases and Information Systems), September 7, **2009**, Riga, Latvia, pp. 214-221.
11. **Anohina, A.**, Grundspenķis, J. Scoring Concept Maps: an Overview. Proceedings of the International Conference on Computer Systems and Technologies and Workshop for PhD Students in Computing, ACM International Conference Proceeding Series, Vol. 433, ACM Press, **2009**, pp. IV.8-1 - IV.8-6.
12. **Anohina, A.**, Vilkelis, M., Lukashenko, R. Incremental Improvement of the Evaluation Algorithm in the Concept Map Based Knowledge Assessment System. International Journal of Computers, Communication and Control, Vol. 4, No. 1, **2009**, pp.6-16.
13. **Anohina, A.**, Mislevics, A., Grundspenķis, J. Development of the Plagiarism Detection Tool for Processing Template-Based Documents. Frontiers in Artificial Intelligence and Applications, Vol.187, Databases and Information Systems V-Selected Papers from the 8th International Baltic Conference DB&IS 2008, June 2-5, 2008, Tallinn, Estonia (H.-M.Haav, A.Kalja, eds.), Amsterdam: IOS Press, **2009**, pp.67-78.
14. **Anohina, A.**, Lavendels, E., Grundspenķis, J. The Concept Map Based Knowledge Assessment System with Reduction of Task Difficulty. Information Systems Development “Challenges in Practice, Theory and Education” (C.Barry, K.Conboy, M.Lang, et all, eds.), Vol.2, Springer US, **2009**, pp. 853-866.
15. **Anohina, A.**, Grundspenķis, J., Nikitenko, E. Early Orientation towards Future Profession: a Case Study of Introduction into Information Systems Development for the First Year Students. Information Systems Development “Towards a Service Provision Society” (G.A. Papadopoulos, W.Wojtkowski, G.Wojtkowski, et all, eds.), Springer US, **2009**, pp.849-858.
16. Grundspenķis, J., **Anohina, A.** Evolution of the Concept Map Based Adaptive Knowledge Assessment System: Implementation and Evaluation Results. Scientific Proceedings of Riga Technical University „Computer Science. Applied Computer Systems”, 5th series, Vol.38, RTU Publishing, Riga, **2009**, pp.13-24.
17. Lukashenko, R., **Anohina, A.** Architecture and Application of Knowledge Assessment Systems: an Overview. Scientific Proceedings of Riga Technical University „Computer Science. Applied Computer Systems”, 5th series, Vol.38, RTU Publishing, Riga, **2009**, pp.25-36.
18. **Anohina, A.**, Grundspenķis, J. Learner's Support in the Concept Map Based Knowledge Assessment System. Proceedings of the 7th European Conference on e-Learning, November 6-7, **2008**, Agia Napa, Cyprus, Vol.1, pp.38-45
19. Vilkelis, M., **Anohina, A.**, Lukashenko, R. Architecture and Working Principles of the Concept Map Based Knowledge Assessment System. Proceedings of the 3rd International Conference on Virtual Learning, October 31-November 2, **2008**, Constanta, Romania, pp. 81-90.
20. **Anohina, A.**, Grundspenķis, J. Harmonization of Engineering Education in Europe as a Prerequisite for Student Mobility: a Case Study Based on Curricula Modularity. WSEAS Transactions on Advances in Engineering Education, **2008**, Iss.7, Vol.5, pp. 508-518.
21. Lukashenko, R., Vilkelis, M., **Anohina, A.** Deciding on the Architecture of the Concept Map Based Knowledge Assessment System. Proceedings of the 9th International Conference on Computer Systems and Technologies and Workshop for PhD Students in Computing, ACM International Conference Proceeding Series, Vol. 374, ACM Press, **2008**, pp.V.3-1 - V.3-6.

22. **Anohina, A.**, Intenberga, L. The Set of Agents for the Modelling of Learner's Emotions in Intelligent Tutoring Systems. Proceedings of the 12th IASTED International Conference on Artificial Intelligence and Soft Computing (ASC 2008), September 1-3, **2008**, Palma de Mallorca, Spain, ACTA Press, pp.73-78.
23. **Anohina, A.**, Grundspenkis, J. Towards Harmonization of Engineering Education Curricula in Europe to Promote Student Mobility: a Case Study. Proceedings of the 5th WSEAS/IASME International Conference on Engineering Education (EE'08), July 22-24, **2008**, Heraklion, Crete Island, Greece, pp.61-66.
24. **Anohina, A.**, Grundspenkis, J. Requirements of the Plagiarism Detection Tool for Processing Template-Based Documents. Proceedings of the 8th International Baltic Conference on Databases and Information Systems (Baltic DB&IS 2008), June 2-5, **2008**, Tallinn, Estonia, pp. 51-62.
25. **Anohina, A.**, Grundspenkis, J., Lavendels, J., Shitikov, V., Vinogradova, V. Improvement of the University Programme on the Base of Modularity. European Integration Studies: Research and Topicalities, 2008, Nr.2 (Proceedings of the 6th International Scientific Conference "Legal, Political and Economic Initiatives Towards Europe of Knowledge", March 14, **2008**, Kaunas, Lithuania), pp. 25-30.
26. Lukashenko, R., **Anohina, A.**, Grundspenkis, J. A Conception of a Plagiarism Detection Tool for Processing Template-Based Documents. Annual Proceedings of Vidzeme University College „ICTE in Regional Development”, **2007**, Valmiera, Latvia, pp.51-57.
27. **Anohina, A.**, Lanka, A. Individualizēta zināšanu vērtēšana datorizētas vērtēšanas sistēmā. Rīgas Tehniskās universitātes zinātnisko rakstu krājums "Humanitārās un sociālās zinātnes", 8.sērija, 12.sējums, Izdevniecība "RTU", Rīga, **2007**, 23.-31.lpp.
28. **Anohina, A.** Learner's Support in Intelligent Tutoring Systems. Proceedings of the 5th International Conference on Emerging E-learning Technologies and Applications, September 6-8, **2007**, Stará Lesná, the High Tatras, Slovak Republic, pp.177-182.
29. **Anohina, A.**, Pozdnakovs, D., Grundspenkis, J. Changing the Degree of Task Difficulty in Concept Map Based Assessment System. Proceedings of the IADIS International Conference "e-Learning 2007", July 6-8, **2007**, Lisbon, Portugal, pp. 443-450.
30. **Anohina, A.** Advances in Intelligent Tutoring Systems: Problem-Solving Modes and Model of Hints. International Journal of Computers, Communication and Control, **2007**, Vol. II, No. 1, pp. 48-55.
31. **Anohina, A.**, Grundspenkis, J. A Concept Map Based Intelligent System for Adaptive Knowledge Assessment. Frontiers in Artificial Intelligence and Applications, Vol.155, Databases and Information Systems IV - Selected Papers from the 7th International Baltic Conference DB&IS 2006 (O.Vasilecas, J.Eder, A.Caplinskis, eds.), Amsterdam: IOS Press, **2007**, pp. 263-276.
32. **Anohina, A.**, Graudina, V., Grundspenkis, J. Using Concept Maps in Adaptive Knowledge Assessment. Advances in Information Systems Development "New Methods and Practice for the Networked Society" (G. Magyar, G. Knapp, W. Wojtkowsky, et all, eds.), Springer US, **2007**, pp. 469-480.
33. **Anohina, A.** The Problem-Solving Modes and a Two-Layer Model of Hints in the Intelligent Tutoring System for Minimax Algorithm. Proceedings of the 1st International Conference on Virtual Learning, October 27-29, **2006**, Bucharest, Romania, pp. 105-112.
34. **Anohina, A.**, Grundspenkis, J. Process Oriented Engineering Education Supported by Intelligent Knowledge Assessment System. Proceedings of the 35th International IGIP Symposium in cooperation with IEEE/ASEE/SEFI „Engineering education-the priority for global development”, September 18-21, **2006**, Tallinn, Estonia, pp.189-194.
35. **Anohina, A.**, Grundspenkis, J. Prototype of Multiagent Knowledge Assessment System for Support of Process Oriented Learning. Proceedings of the 7th International Baltic Conference on Databases and Information Systems (Baltic DB&IS 2006), July 3-6, **2006**, Vilnius, Lithuania, pp. 211-219.
36. **Anohina, A.**, Graudina, V., Grundspenkis, J. Intelligent System for Learners' Knowledge Self-Assessment and Process Oriented Knowledge Control Based on Concept Maps and Ontologies. Annual Proceedings of Vidzeme University College „ICTE in Regional Development”, **2006**, Valmiera, Latvia, pp. 1-8.
37. Lanka, A., Grundspenkis, J., **Anohina, A.**, Pozdnyakov, D., Lavendelis, E. Knowledge Assessment and Self-Assessment in the Process-Oriented Learning, Using Intelligent System Based on Concept Maps. Starpaugstskolu zinātniski praktiskās un mācību metodiskās konferences “Mūsdienu izglītības problēmas” zinātnisko rakstu krājums, Transporta un Sakaru Institūts, 23.-24.Februāris, **2006**, Rīga, Latvija, 65.-68. lpp.

38. **Anohina, A.**, Stale, G., Pozdnyakov, D. Intelligent System for Student Knowledge Assessment. Scientific Proceedings of Riga Technical University „Computer Science. Applied Computer Systems”, 5th series, Vol.26, RTU Publishing, Riga, **2006**, pp. 132-143.
39. **Anohina, A.** Analysis of the Terminology Used in the Field of Virtual Learning. Journal of Educational Technology & Society, **2005**, Vol. 8, No. 3, pp. 91-102.
40. Grundspenkis, J., **Anohina, A.** Agents in Intelligent Tutoring Systems: State of the Art. Scientific Proceedings of Riga Technical University „Computer Science. Applied Computer Systems”, 5th series, Vol.22, RTU Publishing, Riga, **2005**, pp.110-121.
41. **Anohina, A.** Intelligent Tutoring System for Minimax Algorithm. Scientific Proceedings of Riga Technical University „Computer Science. Applied Computer Systems”, 5th series, Vol.22, RTU Publishing, Riga, **2005**, pp.122-130.
42. **Anohina, A.** Clarification of the Terminology Used in the Field of Virtual Learning. Scientific Proceedings of Riga Technical University „Computer Science. Applied Computer Systems”, 5th series, Vol.17, RTU Publishing, Riga, **2003**, pp.94-102.
43. **Anohina, A.** Biznesa procesu reinženierijas metodoloģiju un metožu salīdzinoša analīze. Konferenču materiāli, VII konference “Informācijas tehnoloģija: zinības un prakse”, A/s Dati, Rīga, **2002**. gada 27.novembrī.
44. **Anohina, A.**, Grundspenkis, J. Comparison of Techniques for Business Process Modeling. Scientific Proceedings of Riga Technical University „Computer Science. Applied Computer Systems”, 5th series, Vol.8, RTU Publishing, Riga, **2001**, pp.80-91.

Languages

- Russian - native
- Latvian - fluent
- English - reading- fluent, speaking- intermediate level
- French - intermediate level

Work experience

- 02.2011- **present**. Riga Technical university, Faculty of Computer Science and Information Technology, Institute of Applied Computer Systems, department of Systems Theory and Design (Riga, Latvia), researcher
- 09.2007-**present**. Riga Technical university, Faculty of Computer Science and Information Technology, Institute of Applied Computer Systems, department of Systems Theory and Design (Riga, Latvia), lecturer
- 03.2007.- 01.2011. Riga Technical university, Faculty of Computer Science and Information Technology, Institute of Applied Computer Systems (Riga, Latvia), leading researcher
- 09.2005- 09.2007. Riga Technical university, Faculty of Computer Science and Information Technology, Institute of Applied Computer Systems, department of Systems Theory and Design (Riga, Latvia), assistant
- 09.2004- 08.2005. The government agency "The centre of social integration" (Jurmala, Latvia), lecturer on the subjects “Data structures and algorithms”, “Software engineering (special course)”, “Software engineering (basic course)”, “Object-oriented programming”, “The tools and environments of software development”
- 02.2003- 12.2004. Riga Business Technical School (Riga, Latvia), teacher on the subject “Data structures and algorithms”
- 09.2003.- 06.2004. College „Koledža RRC” (Jurmala, Latvia), lecturer on the subjects “Data structures and algorithms”, “Software engineering (special course)”, “Software engineering (basic course)”
- 09.2001.- 06.2003. Riga Technical university, Faculty of Computer Science and Information Technology, Institute of Applied Computer Systems, Software Engineering department (Riga, Latvia), lecturer on the subjects “Data structures”, “Programming in Pascal language”, “Data structures and algorithms”
-

Membership in Latvian and international organizations

- Member of ACM (Association for Computing Machinery)

Another important experience

- 2010. Chair of the organizing team of the 6th International Conference "E-Learning and the Knowledge Society", August 25-27, 2010, Riga, Latvia
- 19.04.2010. A lecture "Zig-zag of science" in the framework of the project "Cross-section" of the student self-governments of the Faculty of Computer Science and Information Technology of Riga Technical university, Riga, Latvia
- 02.2010. The reviewer at the competition of scientific research works of pupils of 10-12 years "Come and Study at RTU!", Riga Technical University, Riga, Latvia
- 2009. Membership in the organization of the 13th East-European Conference on Advances in Databases and Information Systems, September 7-10, 2009, Riga, Latvia. Responsibility: guests accommodation
- Since 2009 a person responsible for foreign students at the Faculty of Computer Science and Information Technology of Riga Technical university
- 29.10.2008. A lecture "Intelligent tutoring systems" for bachelor level students in the framework of the project "From other viewpoint" co-organized by student self-governments of the Faculty of Computer Science and Information Technology of Riga Technical university and Faculty of Mathematics and Physics of University of Latvia, Riga Technical university, Riga, Latvia
- 2008-2009. The reviewer at the competition of scientific research works of pupils of 10-12 years "Come and Study at RTU!" and a member of the jury on the Day of Young Researchers, Riga Technical university, Riga, Latvia (15 March 2008, 14 March 2009)
- 2007.-2010. A coordinator in the organization and development of the study course "Introduction to the study field" for 1st year students of bachelor studies in the Institute of Applied Computer Systems, Faculty of Computer Science and Information Technology, Riga Technical university, Riga, Latvia
- 2004-2005. The supervisor of qualification work, College „Koledža RRC”, Jurmala, Latvia
- The supervisor of bachelor works (since 2004) and master thesis (since 2007), Riga Technical university, Faculty of Computer Science and Information Technology, department of Systems Theory and Design, Riga, Latvia

Interests and hobbies

- Literature, theatre, cycling, aerobics, swimming, travelling
- 1997- 2002. Actress of the theatre-studio “Kamertonis” of Riga Technical university, Riga, Latvia
- Since 1999 I’ve been writing poetry

Awards

- 18.06.2010. "Crystal Prize" award for the best paper at the 11th International Conference on Computer Systems and Technologies (CompSysTech'10), Sofia, Bulgaria
- 31.05.2010. The main award for the excellent e-learning course «Configuring and Administering Microsoft Office SharePoint Server», Riga Technical University, Riga, Latvia
- 19.06.2008. Gebert Rűf Stiftung's Swiss Baltic Net Graduate Award for outstanding research projects and active participation at international conferences
- 13.06.2008. "Crystal Prize" award for the best paper at the 9th International Conference on Computer Systems and Technologies (CompSysTech'08), Gabrovo, Bulgaria
- 01.2006 - 06.2008. ESF support
- 25.10.2007. Consolation prize of Werner von Siemens Excellence Award for the doctoral thesis
- 30.01.2003. Award and memorial medal of Latvian Academy of Sciences, Lattelekom Ltd. and Latvian Fund of Education for the research in the field of the telecommunication engineering
- 13.12.2002. Werner von Siemens Excellence Award for the best master thesis in year 2002

- 27.11.2002. Award of Latvian Fund of Education and Dati company for the best Master thesis in year 2002
- 07.07.2002. Certificate of the theatre festival "Pitons" (Latvia) for successful role performance
- 16.11.2001. Rector's of Riga Technical University gratitude for excellence in studies and activities in social life
- 23.03.2001. Gratitude of State centre of folk art (Latvia) for high-level actor mastery and self-denying love of theatre






Projects

1. 01.02.2011- **present**. FLPP-2011/8 "Development of ontology-based methods and algorithms for comparison and merging of concept maps of different related study courses" (internal research project of Riga Technical university). Project leader: J. Grundspenkis (Riga Technical university Department of Systems Theory and Design). Responsibilities: preparation of project proposal, project administration, and research activities
2. 01.10.2010- **present**. ZP-2010/6 "Computer-based system for support of expert concept map construction work" (internal research project of Riga Technical university). Project leader: J. Grundspenkis (Riga Technical university Department of Systems Theory and Design). Responsibilities: preparation of project proposal, project administration, research activities and supervising of the programmers
3. 10.2010-**present**. Nr. 2010/0258/2DP/2.1.1.1.0/10/APIA/VIAA/005 „Development of technology for multiagent robotic intelligent system” (ERAF project, programme „Entrepreneurship and innovations”, priority Nr. 2.1 „Science and innovations”, action 2.1.1 „Science, research and development”, activity Nr. 2.1.1.1 „Support to science and research”). Project leader: J. Grundspenkis (Riga Technical university Department of Systems Theory and Design). Responsibilities: administration and coordination of project course
4. 10.2010-**present**. Interreg programme, Estonia-Latvia sub-programme, project ICT DCNet/EU 34537 "Unified ICT Network for Innovations ". Project leader: J. Grundspenkis (Riga Technical university Department of Systems Theory and Design). Responsibilities: research activities
5. 05.2010-**present**. V 7643 National Research Programme "Development of innovative multi-functional materials, signal processing and information technology for competitive science-intensive products" fifth project "New information technologies based on ontologies and transformation" (leader J. Barzdins, University of Latvia, Latvia) sub-project 5.2. Leader of the sub-project: J. Grundspenkis (Riga Technical university Department of Systems Theory and Design). Responsibilities: research activities
6. 04.2010-12.2010. FLPP-2010/19 "Development of a mathematical model for the determination of concept map complexity and degree of task difficulty and its implementation adapting to characteristics of a student model" (internal research project of Riga Technical university). Project leader: J. Grundspenkis (Riga Technical university Department of Systems Theory and Design). Responsibilities: preparation of project proposal, project administration, research activities and supervising of the programmers
7. 01.2010-**present**. "Services for curricula comparison" (the project of the program "Osmoze" of Latvian Ministry of Education and Science and Foreign Office of France). Project leader: J. Grundspenkis (Riga Technical university Department of Systems Theory and Design). Responsibilities: preparation of project proposal, project administration, research activities
8. 10.2009-09.2010. ZP-2009/33 "Development of the algorithm for generating concept maps from unstructured text in the knowledge assessment system with the student modelling component" (internal research project of Riga Technical university). Project leader: J. Grundspenkis (Riga Technical university Department of Systems Theory and Design). Responsibilities: preparation of project proposal, project administration, supervising of the programmer
9. 2009-**present**. 09.1269 "Development of an intelligent applied software based on distributed artificial intelligence and web technologies" (grant of Latvian Academy of Science). Project leader: J. Grundspenkis (Riga Technical university Department of Systems Theory and Design). Responsibilities: research activities
10. 02.2009-12.2009. FLPP- 2009/9 "Development of the intelligent adaptive multiagent knowledge assessment system based on comparison algorithms of concept maps and mathematical model for the

determination of concept maps similarity" (internal research project of Riga Technical university).
Project leader: J.Grundspenkis (Riga Technical university Department of Systems Theory and Design).
Responsibilities: preparation of project proposal, project administration, research activities and supervising of the programmer

11. 10.2008-**present**. 142399-LLP-1-2008-1-BG-ERASMUS-ENW SOCRATES "ETN TRICE -Erasmus European Thematic Network for Teaching, Research and Innovation in Computing Education". Project coordinator: J.Grundspenkis (Riga Technical university Department of Systems Theory and Design). Responsibilities: research activities
12. 06-12.2008. R7387 "Implementation of adaptive feedback in the concept map based intelligent knowledge assessment system" (project funded by Ministry of Education and Science of Latvia and Riga Technical university). Project leader: J.Grundspenkis (Riga Technical university Department of Systems Theory and Design). Responsibilities: preparation of project proposal, project administration, research activities and supervising of the programmer
13. 11.2007-06.2008. VPD1/ERAF/CFLA/05/APK/2.5.1./000078/038 "Research activities for development of m-learning products and services in Latvia accordingly to the progress level of multimedia, telematics and telecommunications (PUMPURS)" (ERAF project). Project coordinator: I.Slaidins (Riga Technical university Open and Distance Learning Centre). Responsibilities: research activities
14. 06-12.2007. R7197 "Development of an ontology-based intelligent system for task generation in the form of concept maps and knowledge assessment" (project funded by Ministry of Education and Science of Latvia and Riga Technical university). Project leader: J.Grundspenkis (Riga Technical university Department of Systems Theory and Design). Responsibilities: preparation of project proposal, project administration, supervising of the programmer
15. 10.2006- 09.2007. ZP-2006/06 "Development of the intelligent system's prototype for plagiarism detection in students' works" (internal research project of Riga Technical university). Project leader: J.Grundspenkis (Riga Technical university Department of Systems Theory and Design). Responsibilities: research activities
16. 09.2006.-06.2007. VPD1/ESF/PIAA/04/APK/3.2.3.2./0057/0007 „E-studiju platformas izveide RTU inženierzinātnu studiju programmām” (ESF project). Project leader: I.Slaidins (Riga Technical university Open and Distance Learning Centre). Responsibilities: development of the learning course in the Blackboard environment for the subject “Fundamentals of artificial intelligence”
17. 01-12.2006. U1771 “Concept maps and ontology based intelligent system for student knowledge self-assessment and process oriented knowledge control” (project funded by Ministry of Education and Science of Latvia and Riga Technical university). Project leader: J.Grundspenkis (Riga Technical university Department of Systems Theory and Design). Responsibilities: preparation of project proposal, project administration, research activities, supervising of the programmers, the development of the system
18. 2005-2008. 05.1644 "Integration of intelligent agents and knowledge management techniques for intelligent support of study process" (grant of Latvian Academy of Science). Project leader: J.Grundspenkis (Riga Technical university Department of Systems Theory and Design). Responsibilities: research activities
19. 06-12.2005. F6962 “Intelligent system for the effectiveness analysis support of process-oriented learning” (project funded by Ministry of Education and Science of Latvia and Riga Technical university). Project leader: J.Grundspenkis (Riga Technical university Department of Systems Theory and Design). Responsibilities: preparation of project proposal, project administration, research activities, supervising of the programmers, the development of the system

Conferences and workshops

- 12th International Conference on Computer Systems and Technologies (CompSysTech'11), Vienna, Austria, June 16-17, 2011 (ar referātu) 
- Methodical conference of Riga Technical university, Riga, Latvia, April 19, 2011 (with presentation) 
- Microsoft Academic Day 2010, Riga, Latvia, November 16, 2010 (as a listener) 
- 51st Scientific Conference at Riga Technical University, Riga, Latvia, October 14, 2010 (with presentation) 
- 11th International Conference on Computer Systems and Technologies (CompSysTech'10), Sofia, Bulgaria, June 17-18, 2010 (with presentation) 

- 1st Latvian Forum of Young Scientists and PhD students, Riga, Latvia, December 4, 2009 (as a listener) 
- 50th Scientific Conference at Riga Technical University, Riga, Latvia, October 14, 2009 (with presentation) 
- Workshop on Intelligent Educational Systems and Technology-enhanced Learning within the 13th East-European Conference on Advances in Databases and Information Systems, Riga, Latvia, September 7, 2009 (2 presentations) 
- 10th International Conference on Computer Systems and Technologies (CompSysTech'09), Ruse, Bulgaria, June 18-19, 2009 (with presentation) 
- 7th European Conference on e-Learning, Agia Napa, Cyprus, November 6-7, 2008 (with presentation) 
- 3rd International Conference on Virtual Learning, Constanta, Romania, October 31-November 2, 2008 (with presentation) 
- 49th Scientific Conference at Riga Technical University, Riga, Latvia, October 15, 2008 (with presentation) 
- 12th IASTED International Conference on Artificial Intelligence and Soft Computing (ASC 2008), Palma de Mallorca, Spain, September 1-3, 2008 (with presentation) 
- 17th International Conference on Information Systems Development (ISD'2008), Paphos, Cyprus, August 25-27, 2008 (with presentation) 
- 5th WSEAS/IASME International Conference on Engineering Education (EE'08), Heraklion, Crete Island, Greece, July 22-24, 2008 (with presentation) 
- 9th International Conference on Computer Systems and Technologies (CompSysTech'08), Gabrovo, Bulgaria, June 12-13, 2008 (with presentation) 
- 8th International Baltic Conference on Databases and Information Systems (Baltic DB&IS 2008), Tallinn, Estonia, June 2-5, 2008 (with presentation) 
- Baltic IT&T 2008 Forum: eBaltics, Radisson SAS Daugava Hotel, Riga, Latvia, April 10-11, 2008 (as a listener) 
- International Conference on E-Activity and Leading Technologies (E-ALT 2007), Porto, Portugal, December 3-6, 2007 (as a listener) 
- 5th International Conference on Emerging E-learning Technologies and Applications (ICETA'2007), Stará Lesná, the High Tatras, Slovak Republic, September 6-8, 2007 (with presentation) 
- 16th International Conference on Information Systems Development (ISD'2007), Galway, Ireland, August 29-31, 2007 (with presentation) 
- IADIS International Conference "E-Learning 2007", Lisbon, Portugal, July 6-8, 2007 (with presentation) 
- 4th International Conference on Multimedia and Information and Communication Technologies in Education, Seville, Spain, November 22-25, 2006 (as a listener) 
- 1st International Conference on Virtual Learning, Bucharest, Romania, October 27-29, 2006 (with presentation) 
- 47th Scientific Conference at Riga Technical University, Riga, Latvia, October 12-14, 2006 (with presentation) 
- 35th International IGIP Symposium in cooperation with IEEE/ASEE/SEFI "Engineering education-the priority for global development", Tallinn, Estonia, September 18-21, 2006 (with presentation) 
- 15th International Conference on Information Systems Development "Methods and Tools, Theory and Practice" (ISD'2006), Budapest, Hungary, August 31 - September 2, 2006 (with presentation) 
- 7th International Baltic Conference on Databases and Information Systems (Baltic DB&IS 2006), Vilnius, Lithuania, July 3-6, 2006 (with presentation) 
- Inter-higher school scientific and educational conference "Actual Problems of Education", Transport and Telecommunication Institute, Riga, Latvia, February 23-24, 2006 (with presentation) 
- 46th Scientific Conference at Riga Technical University, Riga, Latvia, October 13-14, 2005 (2 presentations) 
- 45th Scientific Conference at Riga Technical University, Riga, Latvia, October 13-14, 2004 (with presentation) 
- 44th Scientific Conference at Riga Technical University, Riga, Latvia, October 9-11, 2003 (with presentation) 

- VII Conference “Information Technology: Science and Practice”, Dati Inc., Riga, Latvia, November 27, 2002 (with presentation) ■

Participation in committees

- 2011. A member of Programme Committee of the doctoral consortium of the 10th International Conference "Perspectives in Business Informatics Research" and 2nd International Workshop on Intelligent Educational Systems and Technology-enhanced Learning, Riga, Latvia, October 6
- 2011. A member of Programme Committee of 10th European Conference on e-Learning, Brighton, UK, November 10-11
- 2011. A member of Programme Committee of IADIS International Conference on Intelligent Systems and Agents 2011, Rome, Italy, July 24-26
- 2011. A member of Programme Committee of the 12th International Conference on Computer Systems and Technologies, Vienna, Austria, June 16-17
- 2011. A reviewer of papers of Applied Computer Systems Section of the 52nd Student Scientific and Technical Conference at Riga Technical University
- 2010. A member of Programme Committee of 11th International Conference on Computer Systems and Technologies, Sofia, Bulgaria, June 17-18
- 2010. A member of Programme Committee of IADIS International Conference on Intelligent Systems and Agents 2010, Freiburg, Germany, July 29-31
- 2010. Reviewer of papers in the International Conference on Computers, Communications and Control, Oradea, Romania, May 12-16
- 2010. A reviewer of papers of Applied Computer Systems Section of the 5st Student Scientific and Technical Conference at Riga Technical University
- 2009. A reviewer of papers of the 50th Scientific Conference at Riga Technical University
- 2009. Reviewer of papers in the 5th E-learning Conference, Berlin, Germany, August 31- September 1
- 2009. A member of International Programme Committee of 10th International Conference on Computer Systems and Technologies, Ruse, Bulgaria, June 18-19
- 2009. A member of International Scientific Committee of the 13th WSEAS International Conference on Communications, Rodos Island, Greece, July 23-25
- 2009. A reviewer of papers of Applied Computer Systems Section of the 50th Student Scientific and Technical Conference at Riga Technical University
- 2008. A member of Scientific Committee of the International Conference on E-Activity and Leading Technologies 2008, Madrid, Spain, December 3-5
- 2008. A member of International Programme Committee of 17th International Conference on Information Systems Development, Paphos, Cyprus, August 25-27
- 2008. A reviewer of papers of Applied Computer Systems Section of the 49th Student Scientific and Technical Conference at Riga Technical University
- 2007. A reviewer of papers of the 48th Scientific Conference at Riga Technical University
- 2007. A reviewer of papers of Applied Computer Systems Section of the 48th Student Scientific and Technical Conference at Riga Technical University

Supervised defended diploma thesis

Bachelor works

2011

- "Microsoft SharePoint 2010 and Business Intelligence", V.Rusakovs (Riga Technical university Faculty of Computer Science and Information Technology Department of Management Information Technology) - 9 (excellent)
- "Game-based intelligent tutoring systems", R.Jachmenkins (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 7 (good)

- "Microsoft SharePoint 2010 and multilingual user interfaces", M.Magone (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 7 (good)

2010

- "Social learning environments", R.Shevelis (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 10 (with distinction)
- "Intelligent tutoring systems with a learning companion", J.Lesnichenoks (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 7 (good)
- "Development of collaborative intelligent tutoring systems", M.Tora (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 6 (almost good)

2009

- "Kinds of adaptation in intelligent tutoring systems", I.Feldmane (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 8 (very good)
- "Design and development of the system for producing versions of individual works using JODReports technologies", A.Kolosovs (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 7 (good)
- "Feedback provided to the learner in the mode of practical problem solving in intelligent tutoring systems", I.Paegle (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 8 (very good)
- "Study of the tool VisiRule and development of its user manual", A.Pavlovics (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 8 (very good)
- "Study of a concept "emotionally intelligent tutoring system", S.Petrovicha (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 9 (excellent)
- "Study of a tool Chimera and development of its user manual", D.Skripkins (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 8 (very good)
- "Study of a concept "intelligent information system", A.Smukais (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 7 (good)
- "Development of online dictionary for terminology used in the field of virtual learning", V.Zubkovs (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 7 (good)

2008

- "Modelling of students' emotional characteristics in intelligent tutoring systems", L.Intenberga (Riga Technical university Faculty of Computer Science and Information Technology) - 10 (with distinction)
- "Study of a tool Flex and development of its user manual", N.Statkus (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 9 (excellent)

2004

- "Analysis of approaches for the development of domain and expert models in intelligent tutoring systems", V.Bogdanovs (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 7 (good)

- „Analysis of approaches for the development of student model in intelligent tutoring systems”, D.Marcenkovs (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 8 (very good)
- „Use of agent paradigm in intelligent tutoring systems”, J.Rudenko (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 6 (almost good)

Master theses

2011

- "Computer-based scoring of concept maps", A.Pavlovichs (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 9 (excellent)
- "Development of hinting approach for intelligent tutoring systems", E.Prancane (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 10 (with distinction)
- "Design of interaction mechanisms among agents in an emotionally intelligent tutoring system", S.Petrovicha (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 9 (excellent)

2010

- "Development of an intelligent system based on frames and uncertain knowledge using Flex and Flint tools", N. Statkus (Riga Technical university Faculty of Computer Science and Information Technology Department of Systems Theory and Design) - 8 (very good)

Reviewed PhD theses

- 2011.N.Gruzitis “Ierobežotas latviešu valodas formālā gramatika un semantika” (University of Latvia)

CURRICULUM VITAE



1. Family name: **Lanka**

2. First names: **Anita**

3. Date of birth: 06.02.1950.

4. Nationality: Latvian

5. Education:

Institution	University of Latvia
Date	1983
Degree(s) or Diploma(s) obtained	Batchelor`s degree Nr.359554
Institution	University of Latvia
Date	1993
Degree(s) or Diploma(s) obtained	Dr. paed. C-D Nr. 000617

6.. Language skills: (excellent, good, poor)

Language	Reading	Speaking	Writing
English	excellent	good	good
Russian	excellent	excellent	excellent
Latvian	excellent	excellent	excellent

7. Membership of professional bodies:

Coordinator of VET TTnet in Latvia

A member of Editorial Board of RTU Scientific work series „The Humanities and Social Studies”

A member of Editorial Board of Scientific Proceedings of Riga Technical College

A member in Senate of Riga Technical University Study Program Board

A member of Council of Doctoral studies

8. Other skills:

Computer skills: MS Word, MS Excel, MS Power Point, MS Visio, Lectora professional

9. Present position:

Professor and Director of Humanitarian Institute

10. Key qualifications:

Ten years of experience in the design, implementation and development study program for Vocational Teacher Education in Latvia.

Expert in the field of evaluation and accreditation of study programs.

Expert in the Peer Review “The higher Apprenticeship” held in Turin on 30-31 October 2008

Researcher in many projects related to education and life long learning: “Identifying Possibilities for Improving Teachers’ Competencies in Vocational Training”, „Young engineers training and labor market in Latvia” financed by Latvian Council of Sciences”.

Researcher

11. Participation in the international projects:

„The change of accents and structure in the vocational educational education in Latvia and Lithuania”, by lecturing on the following topics:

- The Development of Learning Theories
- Contemporary Interpretation of Learning
- Changing of Teachers Role in Contemporary Education

Project leader in the ESF project “ Upgrading Competencies of the Academic Staff in Field of Pedagogics and IT”.

Participation in project CEDEFOP No AO/B/MB/VET Professions/01 „ Defining Vocational Education and Training professions”. Lot 1: VET teachers and trainers operating within IVET (initial VET) systems and settings.

Participation in project CEDEFOP No AO/B/MB/VET Professions/017/06 „ Defining Vocational Education and Training professions”. Lot 2: VET teachers and trainers operating within CVET (Continuing VET) systems and settings.

Researcher in Leonardo da Vinci TIMA-BALT project LLP-LdV-TOI-2007-LT-0004 “Transfer of Innovative Methodology for Assessment of VET Teachers` Prior Learning”

12. Professional Experience Record:

Date	From 2008
Location	Riga
Company	Riga Technical University
Position	Professor, Director of Humanitarian Institute
Description	Teaching the following subjects: Vocational Pedagogy Teaching Methodology Didactics of University The Theory of Andragogy/ Adult Education
Date	From 2002 – 2008
Location	Riga
Company	Riga Technical University
Position	Associated professor, Director of Humanitarian Institute
Description	Teaching the following subjects: Vocational Pedagogy Teaching Methodology Didactics of University The Theory of Andragogy/ Adult Education
Date	1997 - 2002
Location	Riga
Company	Riga Technical University
Position	Assistant professor
Description	Teaching the following subjects: General pedagogy Theory of Education A. Adler's Psychological Concepts in Teacher's work
Date	1995-1997
Location	Riga
Company	Latvian University
Position	Assistant professor

Description	Teaching the following subjects: General pedagogy Theory of Education A. Adler's Psychological Concepts in Teacher's work
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Date	1983-1991
Location	Riga
Company	Institute of Scientific Research in Education
Position	Senior researcher
Description	Research work in Education

13. Professional advancement

APL Assessors training organised by JAMK University of Applied Sciences. 09.06.2008. – 15.01.2010.

Seminar and workshop facilitated by Ottawa University Dr. oec. Linda Manning „From Teaching to Active Learning”. Riga Technical University, 15.04.2009.

Methodological seminar „How to develop the necessary competencies for Research Work at University”. 02.03.2007. – 30.03.2007. Riga Teacher Training and Educational Management Academy.

Seminar facilitated by Michael R. Lavin “Teaching with Electronic Resources” 03.12.2006. - 05.12.2006.

Seminar facilitated by Dorin Arion Executive Development Workshops : “Managing Interpersonal Relationships in Organisations “ 30.03. - 31.03. 2004.

Study visits :

- „The role of higher education institutions in providing vocational education and training” ,March 19-20. 2007, Thessaloniki.
- European Peer Learning Activity – „Enhancing Discourse between Teachers and Worklife”, October 9-13.2006, Helsinki Finland.

14. Main international short term missions

European Peer Learning Activities:

“The context of higher-level apprenticeships in Latvia and potential transferability”. Peer Review Italy: *The higher apprenticeship: a part of effective lifelong learning and a flexicurity strategy* .Turin, 30-31 October 2008.

„The role of higher education institutions in providing vocational education and training” ,March 19-20. 2007, Thessaloniki.

„Enhancing Discourse between Teachers and Worklife”, October 9-13.2006, Helsinki Finland.

15. Publications

1. Lanka A. VET Teachers in the Context of Professional Growth: Reality and Aspirations.// Vocational Education and Training: Research and Reality. Kaunas, 2009.
2. Promotion of students` independent learning at university. Scientific Proceedings of Riga Technical University, 8 ser., Riga, RTU, 2008.
3. Needs and experience of assessment of non-formal and informal learning in Latvia. Assessment of Non-formal and Informal Learning: experience and methodological guidelines. *International Conference, April 2, 2008., Lithuania, Kaunas, Vytautas Magnus University.*
4. Lanka A., Anohina A. Individualized knowledge assessment in a computer- assisted assessment system. Scientific Proceedings of Riga Technical University, 12 vol., 8 ser., Riga, RTU, 2007.
5. A.Lanka, E.Murnieks. Vocational Education and Training in Latvia: The Problems and Solutions. / The Transformation of Vocational Education and Training (VET) in the Baltic States – Survey of Reforms and Developments . Series: Technical and Vocational Education and Training: Issues, Concerns and Prospects, Vol.4. Springer, 2006.
6. Co-author. Intelligent System for Student Knowledge Assessment// Scientific Proceedings of Riga Technical University, 5th series, Computer Science, Applied Computer Systems, Riga, RTU, 2006.

7. Improvement of Assessment Methodology. Scientific Proceedings of Riga Technical College // Higher Professional Education in Theory and Practice. 4 vol., Riga, 2006.
8. Qualification of Vocational Teacher – a Key Indicator of VET System Quality”. The report was delivered at International Conference Vocational Education and Training. Research and Reality in the Vitautas Magnus University in Kaunas, 25th April, 2002.

Publications in Methodology

1. Co-author Assessment of Prior Learning in Vocational Teacher Education. Handbook for Assessors. Tallin, Baltic Print&Banners, 2010.
2. Co-author Assessment of Prior Learning Achievements in Vocational Teacher Education. Handbook for Candidates. Riga, 2010.
3. Learning Methodology. Riga, RTU, 2004.
4. The Educational Process, RTU, HI 2003.
5. Teaching and Learning Methodology. A Teaching Aid. Introduction to Studies. Riga RTU, 2002.
6. What students gain at lectures.// Jaunais Inženieris No 13, 2002.
7. Cooperation of the Teacher and Trainee in Education Environment. RTU, HI 2000.
8. Methodical Advice to the Participants of Vocational Teachers Year – Long Basic Course. RTU HIO Chair of Sociology and Pedagogy, Riga, 1999.
9. Co- author in the methodological Collection” Module as Element Joint the Basis and Further Essential Vocational Training Education”, Riga, 2000.
10. Changing my Teaching style through experiential learning. The rope. Stories of Adult Education. Nordic Folk Academy, 2000.
11. The ways of Mastery Language. The role of Communicativity in Mastery Language. Riga LVAVO, UNDP, 2000.

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Office: (371) 733 2269
Fax: (371) 782 0092
E-mail: betil@chamber.lv

Languages: Latvian, English and Russian (fluent); German and French (passive comprehension)

Academic Record

Ph.D. (philosophy), University of Ottawa, Canada (Diploma, 09/01)
M. A. (philosophy), University of Ottawa, Canada (Diploma, 06/96)
B. A. (philosophy), University of Latvia, Riga (Diploma, 06/92)

Consulting Experience

- 2003 - Project Leader, BETIL (“Better Business Ethics in Latvia”). BETIL is a joint project of Latvian Chamber of Commerce and Stockholm School of Economics in Riga, which aims at establishing an institutionalized system in order to strengthen ethical conduct of business in Latvia.
- 2002-03 Senior Policy Analyst, Department of Indian and Northern Affairs, Economic Development Division, Strategic Initiatives Directorate. The main focus of my activities was placed on developing institutional capacity that would promote integration of Native Indian businesses into the mainstream Canadian business. Specifically, on the access to capital issue I participated in the development of the pilot project on “The Use of Venture Capital in Regional Development”; on the business mentoring issue I worked on creating a system to deliver mentoring to remote areas of Canada; on the business development issue I took part in establishing an insurance company issuing contract surety bonds for Native construction businesses.
- 2001-02 Consultant, Treasury Board of Canada, Expenditure and Management Strategies Section. In this position, I prepared a commissioned report on “Ethical Aspects of the Budgetary Process,” which clarified the meaning of ethical concepts, such as conflict of interest and responsibility, for Program Analysts.

Teaching Experience

- 1998-2003 University of Ottawa: Replacement Professor
- Courses taught:
- PHI 1101: Critical Reasoning (3 cr.)
 - PHI 1103: Fundamental Philosophical Questions (3 cr.)
 - PHI 1104: Great Philosophers (3 cr.)
 - PHI 2170: Introduction to Propositional and Predicate Logic (3 cr.)
 - PHI 2394: Business and Social Values (3 cr.)
 - PHI 2397: Modern Philosophy (3 cr.)
 - PHI 2398: Environmental Ethics (3 cr.)
 - PHI 3386: Philosophy of the Enlightenment (3 cr.)
 - PHI 3387: 19th Century Philosophy (3 cr.)

2002-03 McGill University (Montreal): Visiting Professor

Courses taught: PHI 361: 18th Century Philosophy (3 cr.)

2001-02 Concordia University (Montreal): Visiting Professor

Courses taught: PHIL 214: Deductive Logic (3 cr.)

2001 Stockholm School of Economics in Riga: Visiting Lecturer

Courses taught: Business Values
Insider Trading: Concepts and Problems

Publications

Papers:

“Hume and Berkeley in the Prussian Academy: Louis Frederic Ancillon’s ‘Dialogue Between Berkeley and Hume’ of 1796”, co-authored with R.H. Popkin, J.C. Laursen, S. Charles, *Hume Studies* 27:1 (2001), pp. 85-97.

“Berkeley a-t-il anticipé le problème de l’induction?”, *La Pensée Scientifique de Berkeley*, S. Charles (ed.) (Presses de l’Université Laval, forthcoming in 2003)

Review of M. Frasca-Spada, *Space and the Self in Hume’s Treatise*, *British Journal for the History of Philosophy* (forthcoming)

Books:

Latvian translation and introduction to Simon Blackburn’s *Think: A compelling introduction to philosophy* (forthcoming).

Presentations

“Ramsey and Russell on the Nature of Belief,” invited lecture at the Central European University, Budapest 06/02

“Hume’s Influence on Cambridge Philosophy in the 1920s,” invited lecture at the University of Trent, 02/02

“Did Berkeley anticipate the Problem of Induction?” *Canadian Philosophical Association*, University of Laval, 05/01

“Personal Identity without Substance,” *18th Century Scottish Philosophy in its European Context*, Annual conference of the British Society for the History of Philosophy, University of Glasgow, 04/01

“Identity and Metaphysics in Hume’s *Treatise*,” *Memory and Identity: Past and Present*, 26th conference of the Canadian Society for Eighteenth Century Studies, University of Toronto, Toronto 10/00

“Berkeley’s Anti-abstractionism,” *Current Research Series*, Department of Philosophy, University of Ottawa, 03/00

“Berkeley and Hume on the Nature of Abstract Ideas,” *10th International Congress of Enlightenment*, University College Dublin, Dublin, Ireland, 07/99

“Isaiah Berlin on Human Nature,” *The Value of Liberty: the Challenge of Isaiah Berlin*, Stockholm School of Economics, Riga, Latvia, 09/98

Participation on the Radio panel on the philosophy of Sir Isaiah Berlin, Riga, Latvia, 09/98

“On Hume’s Scepticism,” *Current Research Series*, Department of Philosophy, University of Ottawa, 10/97

“Entrenchment of Predicates and Goodman’s assessment of empiricism,” invited lecture at the colloquium on the philosophy of Nelson Goodman, University of Ottawa, 03/97

Commentaries:

“Commentary on “Locke on Primary Qualities: Transdictive Inference, Solidity, and Corpuscularianism” by R.A. Wilson,” *Canadian Philosophical Association*, University of Laval, 05/01.

“Commentary on “Hume’s Experimental Method” by T. Kiefer,” *Annual Hume Society Conference*, College of William and Mary, Williamsburg, Virginia, 08/00

“Commentary on “Can Crispin Wright Solve the Platonist Dilemma” by M. Pool,” *Canadian Philosophical Association*, University of Ottawa, 05/98

“Commentary on “Hobbes on Synthetic and Analytic Method” by K. Morris,” *Canadian Philosophical Association*, University of Ottawa, 05/98

CAREER PROFILE

At age 22 and while still in undergraduate university James co-founded a software company. Over the next 20 years he had a wide variety of in-depth experiences in both management and technology working with his company. His management experience has covered all aspects of an organization including operations, business development, product development, project delivery and strategy. His technology experience has included software development and consulting with a broad range of software technologies. He has gained considerable experience with many different customer types. His customer experience includes government, military, industry, nonprofit and educational institutions throughout North America and in some parts of the rest of the world.

Dr. Bowen has been interviewed on radio, T.V. and newspaper. He has published papers and given presentations or seminars on technology and business insights. His education has focused on management and technology. He has published two books discussing the creation and growth of high-tech product companies. He is currently working on his third book which is a collaborative effort drawing upon input from some of the leaders of Ottawa's technology industry. He has obtained the Project Management Professional (PMP) certification from the Project Management Institute and the Certified Management Consultant (CMC) designation from the Association of Management Consultants.

He now teaches MBA courses that include technology, entrepreneurship and strategy as an Adjunct Professor at the University of Ottawa.

He is active with local technology companies and investors and regularly provides advice to tech companies. He currently writes the monthly theme article discussing the technology industry and its management issues for Ottawa's technology industry newspaper NationalCapitalScan.

PROFESSIONAL EXPERIENCE

Current Activities

March 2007 - Present	Instructor School of Commerce and Administration Laurentian University, Sudbury MBA strategic management course through web based distance learning. http://cga.laurentian.ca/hbcom/fcontent/faculty/index.asp
Spring 2006 - Present	Assistant Professor (Part Time) Dept of Business Administration Royal Military College, Kingston MBA ebusiness and project management courses through web based distance learning. http://www.rmc.ca/admin/faculty/alphaB_e.html
March 2006 – March 2009	Writer National Capital Scan, Ottawa Ottawa's monthly newspaper for the technology industry with a readership of 16,500. Monthly column on different topics involving technology and entrepreneurship plus markets such as government, defense, and environment. http://www.nationalcapitalscan.ca/news/mt-search.cgi?IncludeBlogs=1&search=bowen
2002 - Present	Adjunct Professor University of Ottawa, Jan. 2006 - Present Part-Time Professor University of Ottawa, May 2002 – Dec. 2005 Taught MBA courses on strategic management of product companies and strategic management of Information Technology including ebusiness/ecommerce, project management, supply chain management, and hi-tech entrepreneurship. Taught undergraduate courses on strategy, project management, entrepreneurship, supply chain management, ecommerce, services marketing and, Information Systems and Technology. http://www.telfer.uottawa.ca/component/listing,Bowen,%20James%20E./option,com_directory/page,view

Previous Experience

2006 & 2008	<p>Visiting Professor Riga Business School, Riga Technical University, Latvia</p> <p>Taught ecommerce/ebusiness course to MBAs and entrepreneurship to Executive MBAs</p>
2005- 2008	<p>Instructor Algonquin College, Ottawa</p> <p>Taught project management in the certificate program.</p>
Fall 2005 - 2007	<p>Management Consultant Associate DoyleTech Corporation, Ottawa</p> <p>Provided market direction and mentoring service for a start up technology product company and did a nanotechnology survey.</p>
Fall 2005 – Spring 2006	<p>Co-Founder Kestrel Management and Investment Group, Ottawa</p> <p>Co-founder of informal angel investor and advisor group. http://www.ottawabusinessjournal.com/299657912725534.php</p>
May 2004 – Oct 2004	<p>Strategic Advisor to the President Guildline Instruments, Smith Falls, Ontario</p> <p>Contract position to restructure all aspects of a precision instrument product company. The assignment covered modifying the entire organization including internal processes (engineering, production, marketing/sales, management), IT, outsourcing, project management, marketing/sales, corporate culture and included strategic and business plan development.</p>
1983 – May 2004	<p>Vice President and cofounder CompEngServ Ltd., Ottawa, Ontario</p> <ul style="list-style-type: none"> • Oversaw operational management activities. • Responsible for business development activities in areas such as internet-based computing, artificial intelligence/expert systems (AI), knowledge management and software product outsourcing. Directly responsible for becoming and maintaining the position as a leading Canadian company in AI. • Implemented corporate information systems and involved in corporate software engineering and organizational process redesign. • Responsible for corporate strategy and overall corporate development. Developed a shift in strategy to alliance-based growth that doubled the corporate revenues in late 1990s. • Oversaw development and marketing of an archeology and a tourism product. • Responsibility included: Accounting functions and R&D tax credit returns, Legal and personnel issues, Negotiations for potential mergers/buyouts, contracts, etc., and Bid proposal preparation
2001- 2005	<p>Chief Technology Officer Infracycle Ltd., Ottawa, Ontario</p> <p>Volunteering in an advisory capability as Chief Technology Officer for a "start-up" municipal land development software product company.</p>
1983 – April 2004	<p>Project Leader/Manager and co-founder CompEngServ Ltd., Ottawa, Ontario</p> <ul style="list-style-type: none"> • Completed small study on underwater acoustics localization using Java. • Completed small study on outsourcing of PKI for Canadian Government. • Worked as part of a team working on R&D project for network security.

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	<ul style="list-style-type: none"> • Worked on upgrading the new product development process project including internet-based implementation for instrument manufacturing company. • Market analysis and strategy report for IT services for a large American-based consulting firm. • Modifications to a web-based (PHP/HTML) Land Development product running on Apache and MySQL. • Designed and programmed a Java based product for real-time situation management. • On behalf of Nortel studied the applicability of Artificial Intelligence to network design. • The Commanders' Expert System Advisor part of a 2 year multi-company Advanced Technology Battle Management System for the military. • A multi-company project to design a virtual reality specification system on behalf of the Canadian Space Agency. • Worked on an internal R&D project to examine military, ISO, and CES development heuristics to prepare a CES methodology for software projects. • On behalf of the Canadian Military research establishment to study the use of a hybrid expert system/neural net approach to military Command and Control. • For DND, assisted in the review and enhancement of the specifications and evaluation criteria of a several million dollar DND procurement for a real-time multi-tasking human critical computer system. • On behalf of Consumer and Corporate Affairs Canada, a seven month study to examine the feasibility of combining several OCR product outputs with an AI system to increase the conversion accuracy. • On behalf of Consumer and Corporate Affairs Canada, a twenty month multi-company project to develop the specification for a patent classification AI system. • With two large police agencies, an eighteen month project to develop a prototype expert system to provide decision support for police investigators. • On behalf of the Canadian Military, a seven month study to examine using neural nets for tracking objects in three dimensional space. • For a large Quebec corporation performed Independent Validation and Verification of a hybrid expert system inventory predictor. • For a bank, a hybrid expert system project that predicted the cash load requirements of an ABM. • On behalf of Transport Canada, 11 month contract to design and implement a diagnostic expert system for the resolution of Radio Frequency Interference. • For the Psychology Department at Carleton University, a five month project to design and implement a computerized experiment which tested subjects according to a psychology hypothesis.
1992	<p>Sessional Lecturer School of Business, Carleton University, Ottawa</p> <p>Taught undergraduate "Business Information Systems" course covering relational database design, object oriented programming, and artificial intelligence concepts.</p>

TECHNICAL EXPERTISE

Programming Languages: PHP, Java, HTML, Pascal, Fortran

Operating Systems: User understanding of Macintosh OS, DOS, Linux, SUN Solaris and Windows.

Documentation & Standards: Familiar with DOD-STD-2167A and ISO 9000-3

Database: MySQL, ODBC

Web Servers: Apache

EDUCATION/PROFESSIONAL DEVELOPMENT

2006	Case Teaching Workshop
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James Bowen, Ph. D., PMP, CMC

	Taught by Professor Kudar formally of Ivey School of Business, University of Western Ontario
2005	Certified Management Consultant (CMC) Association of Management Consultants
2003	Project Management Professional (PMP) certification Project Management Institute (PMI)
2002	Ph.D. (in management) Dissertation: Growth of Hi-Tech Product Firms Carleton University
1992	Master of Management Studies Thesis: A Fraud Expert System. Carleton University http://sprott.carleton.ca/~ianlee/research.htm
1985	Bachelor of Commerce Carleton University

PROFESSIONAL ACTIVITIES

- Coach, relationship marketing team, **Interuniversity Happening Marketing Competition**, <http://www.uomaclub.com/events3.html>, University of Ottawa Marketing Association, 2009
- Mentor for Mohamed Helmy Megahed for the 2009 **Faculty of Engineering, University of Ottawa, Entrepreneurship and Innovation Endowment Fund (EIEF) business plan competition**. “Web based security enhancement of 4G mobile communication network”.
- AWARD: **Master Professor**, Inductee, 2008, <http://www.bsg-online.com/stats/MasterProfessors/BowenJames.html>
- Paper reviewer, **Springer's Electronic Commerce Research Journal**, innovation issue, fall 2008.
- Mentor/Advisor, **TMC Consulting Clinic**, consultingclinic.ca, Summer 2008 - present
- Advisory Panel Member, **Open Source Business Resource**, osbr.ca, also serve as paper reviewer, September 2008 – present, <http://www.osbr.ca/ojs/index.php/osbr/about/editorialTeam>
- Interim Management Board, **Canadian Center for Renewable Energy**, University of Ottawa, 2007- present.
- Mentor/Advisor, **Summer Company Program** run by the City of Ottawa, Summer 2008
- Research Grant: **Data Collection for Possible New Entrepreneurial Trend** – School of Management Research Fund, University of Ottawa, 2007
- Selected for **Governor General's Canadian Study Conference** - 1995.
- Regional Organizing Committee, **Duke of Edinburgh Conference** - 1998.
- Working Group Member: **Ontario Government Advisory Committee on the Computing Sector** - 1993.
- **OCEDCO Aerospace and Defense Committee** – 1993

Student Supervisor

- MBA project supervisor, University of Ottawa – 2009
 - **Performance metrics for green products within the retailer client loyalty programs framework**, Chad Johannes, Laura Kleiman, Nicholas Klimowicz, Laura Recoskie, Jason Spears
 - **Growth strategy and business plan for Ride Shark**, Alexander Leslie, Andrew Zadarnowski, Rob Romard, Radek Zlamal, Freda Ginsberg
- MBA thesis supervisor, Riga Business School, Riga Technical University, 2007-2008
 - **Emotional Acceptance Model of Projects**, Georgs Mote
- MBA project supervisor, University of Ottawa – 2008
 - **Risk Management Strategy for Cognos Products Organization**, Arshaq Ali, Dominic Mailhot, Raffi Fattal, Jamie Guptill, Simon Sukstorf
- MBA project supervisor, Laurentian University – 2008/2009
 - **Competitive success factors required to establish a sustainable market share of accounting education in China**, Shirley Mauger
- MBA projects supervisor, School of Management, University of Ottawa – 2007
 - **Business Plan for Bridgewater systems turnkey solutions project**, Mike Blackadder, Gururaj

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Deshpande, Jackson Klein, Kevin Estabrooks

- **Electricity From Wood Biomass**, Jane Hext, Peter Howroyd; Ravi.Ramsaran,Mark.Wharton
- **Supply Chain Management KPIs**, Mahjabin Khan, Anusha Lewis, Jay Concepcion, Muhammad Sarwar, Patrick Adam

- MBA project supervisor, School of Management, University of Ottawa - 2002
 - **Powerbase: C02 Credit Trading**, Yong Guo, Nianhua (TOM) Qin, Jie Wen, Weijian Wu
- MBA project supervisor, University of Ottawa - 2002
 - **Ibis Research, Business Plan for delivery of G1/KM training for Chinese learners**, Yanbin Hou, Yanyn Zhang

Masters Thesis Committee Member, Carleton University, School of Business - 1994

- **Developing a Knowledge Based Decision Aid: The Case of CASE Adoption**, Lasdini Purwanti.

PUBLICATIONS

Work in Progress

J.E. Bowen, "Tricore CEO: 6 Steps to Comprehension, Insight and Results", **Manuscript Completed**
Scott Ensign, Nicholas Robinson and J.E. Bowen, "Innovation and Entrepreneurship: An Empirical Study into the Importance of Technological Convergence", **working paper**
J.E. et, al, "Shifting the Barrel" **Manuscript in at publisher**
Georgs Mote and J.E. Bowen, Emotional Acceptance of Projects, **working paper**.

Books

J.E. Bowen, "Global Wolves are at the Door: Be the Future or be History", Productive Publications, Toronto, Ontario, 2006. http://www.productivepublications.com/global_wolves_are_at_the_door.htm
J.E. Bowen, "The Maelstrom Effect: Building Hi-Tech Product Companies", South Western Publishing, Mason, OH, 2004.
http://www.thomsonedu.com/thomsonedu/instructor.do?product_isbn=9780538727013&disciplinenumber=415&mainTab=About_the_Book&subtab=Overview

Papers in Conference Proceedings

Bowen, D.G., A. Hlibowicki, N. Link, J.E. Bowen, G. Singer, R. Kruk, and B. Welch, "IDEAS - a project for Intelligent Virtual Reality with Application to Space and Defence", *DND Workshop on Advanced Technologies in Knowledge-based Systems and Robotics*, October, 1995.

Bowen, J.E., D.G. Bowen and W. E. Bowen, "The Need for Intelligent Virtual Reality in the Military", *The Seventh Symposium/Workshop: Applications of Expert Systems in DND*, May, 1995.

Bowen, J.E. and D.G. Bowen, "Using Military Standards and ISO 9000-3 as Guidelines for the Development of Intelligent Systems", *The Sixth Symposium/Workshop: Applications of Expert Systems in DND*, p 1-14, May, 1994.

B.A. Bowen, J. Liu and J.E. Bowen, "A Design Methodology for Intelligent Command and Control or Battle Management Applications", *The Sixth Symposium/Workshop: Applications of Expert Systems in DND*, pg. 170-184, May, 1994.

Bowen J.E., J.Liu and B.A. Bowen, "Hybrid Artificial Intelligence and Military Applications", *DND Workshop on Advanced Technologies in Knowledge-based Systems and Robotics*, pg. 375-382, November, 1993. Invited Paper.

Liu, J., J. Nugent, D. Bowen and J. E. Bowen, "Intelligent OCR Editor, *Canadian Conference on Electrical and Computer Engineering*, Engineering Institute of Canada, pg. 9-11 vol.1, September 1993.

Legakis, L., J. Nugent, D. Bowen and J. E. Bowen, "Intelligent Subject Matter Classification and Retrieval, *Canadian Conference on Electrical and Computer Engineering*, Engineering Institute of Canada, pg. 15-18 vol.1 September 1993.

Bowen J.E. and U. Kumar, "Knowledge-Based Technology Transfer: Hybrid Architectures with Rules, Case-base Reasoning and Neural Nets", *Canadian Conference on Electrical and Computer Engineering*, Engineering Institute of Canada, pg. 12 – 14, September 1993.

Bowen J.E. and V. Kumar, "Frames And Case-Based Reasoning: Applications in Manufacturing," *ASAC'93, Production and Operations Management Division*, Administrative Sciences Association Conference, Volume 14, no. 7, pg. 12 – 14, June, 1993.

James Bowen, Ph. D., PMP, CMC

- Bowen J.E and U. Kumar, "Technology Transfer: An Expert System for Adoption of Innovation Decisions", *The Second International Conference On Artificial Intelligence Applications On Wall Street*, Software Engineering Press: Gaithersburg, MD, pg. 29-39, April, 1993.
- Bowen J.E., "Devising Battle Plans with Case-Based Reasoning," *The Fourth Symposium/Workshop: Applications of Expert Systems in DND*, Royal Military College of Canada, April 1992.
- Bowen J.E., "Marketing and Artificial Intelligence: With Neural Network Market Segmentation Example," *The First International Conference On Artificial Intelligence Applications On Wall Street*, IEEE Computer Society, Oct. Pg. 251 – 256, 1991.
- Bowen J.E., "Using Neural Nets for Predicting Several Subsequent and Subsequential Future Values from Time Series Data," *The First International Conference On Artificial Intelligence Applications On Wall Street*, IEEE Computer Society, pg. 30 – 34 Oct. 1991.
- Bowen J.E., "Formulating Decisions and Handling Uncertainty in Military Expert Systems," *The Third Symposium/Workshop: Applications of Expert Systems in DND*, Royal Military College of Canada, May 1991.
- Bowen J.E., "Model Based Reasoning in Expert Systems: Decision Analysis Theories and Uncertainty Measurement Methods," *7th IASTED International Symposium: Expert Systems Theory & Applications*, The International Association of Science and Technology for Development (IASTED), pg. 71-74, December 1990.
- Bowen J.E., "Using Neural Nets for Predicting Future Values Based Upon Time Series Data: Stock Market," *Canadian Conference on Electrical and Computer Engineering*, Engineering Institute of Canada, September 1990.
- Bowen J.E., "A RFI Diagnostic System for Radio Communication Systems," *The Second Symposium/Workshop: Applications of Expert Systems in DND*, Royal Military College of Canada, May 1990.
- Bowen J.E., Bowen W. E., "Neural Nets vs Expert Systems: Predicting in the Financial Fields (ABM)," *The Sixth IEEE Conference on Artificial Intelligence Applications (CAIA)*, IEEE-Computer Society, pg. 118-124, March 1990.
- Bowen J.E., Bowen B.A., "EMIR: An Expert System for Electromagnetic Interference Resolution," *The Second International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems (IEA/AIE-89)*, ACM/SIGART, pg. 73-78, June 1989.
- Papers/articles in Books, Journals, etc.
- Bowen, J. E., "Cleantech and Wireless – Creating Revolutions", *Telecom Journal*, Issue 4, Volume, pg. 11-12, 2008
- Bowen, J.E., "An E-Business Framework", *Encyclopedia of Library and Information Science*, Marcel Dekker Inc., New York, Volume 72, pg. 127- 134, 2002.
- J.E. Bowen, "The Commander's Expert System Advisor: An Intelligent Computerized Evaluation and Prioritization of Plans", *Encyclopedia of Library and Information Science*, Marcel Dekker Inc., New York, Volume 70, pg. 57-76, 2002.
- J.E. Bowen, "Commerce in Cyberspace: Academic Research Directions - Update 2000", *INFORMS*, College of Marketing, 32-35, Fall 1999.
- J.E. Bowen and R.K. Doull, "Emergency Management/Disaster Recovery Systems: Evolving Technology, *Disaster Recovery Journal*, Summer, pg. 72-74, 1999.
- J.E. Bowen, "Conducting Research on the Internet", A. Kent (ed.), *Encyclopedia of Library and Information Science*, Marcel Dekker Inc., New Yorkpg.1999.
- J.E. Bowen, "Co-operation: A 21st Century Management Approach", *HR Today*, Institute of Professional Management, Ottawa, pg. 24-26, April, 1998.
- J.E. Bowen, "Real-Time Situation Management - A Java Application", A. Kent (ed.), *Encyclopedia of Library and Information Science*, Marcel Dekker Inc., New York, Volume 39, pg. 195-204, 1998.
- Reprinted by request in, A. Kent (ed.), *Encyclopedia of Computer Science and Technology*, Marcel Dekker Inc., New York, pg. 285-293, Volume 62, 1998.

James Bowen, Ph. D., PMP, CMC

- Bowen, J.E., "Neural Nets in the Financial Field", A. Kent (ed.), Encyclopedia of Library and Information Science, Marcel Dekker Inc., New York, pg. 227-236, Volume 60, 1997.
- Bowen, J.E. and D.G. Bowen, "VR re-defines the Organization", VR World, Miller Freeman Publishers, CA, Spring, pg. 9-16, 1995.
- Bowen, J.E., "Artificial Intelligence Approaches for Fraud Investigators", A. Kent (ed.), Encyclopedia of Library and Information Science, Marcel Dekker Inc., New York, pg. 1-30, Volume 57, 1995.
- Bowen, J.E. and D.G. Bowen, "Developing Intelligent Systems", AI Expert, Miller Freeman Publishers, CA, pg. 34-41, August, 1994.
- Bowen J.E., "An Expert System for Police Investigators of Economic Crimes," Expert Systems with Applications: An International Journal, Pergamon Press, NY, Volume 7, No. 2, pg. 235-248, 1994.
- Guest Editorials
- Bowen, J.E., "Neural Net Design Road-map", NeuroVeSt Journal, Haymarket, VA, Sept./Oct., pg. 7-11, 1994.
- Bowen, J.E., "Distributed Intelligent Systems", NeuroVeSt Journal, Haymarket, VA, Volume 2, Number 1, pg. 6-7, 1994.
- Website Publications
- Bowen, J.E., "The Maelstrom Effect: The Next Generation", 2004, <http://www.refreshers.com/!jbwmael.html>
- Bowen, J.E., "Y2K: Emergency Response Preparedness - Preemptive Action", published on the International Association of Emergency Managers (IAEM), Jan 1999 and the Canadian Center for Emergency Preparedness (CCEP) Dec 1998, News E-zine.
- Bowen, J.E., "Future of Emergency Management/Disaster Recovery Systems", published by the Canadian Center for Emergency Preparedness (CCEP) Nov 1998, News E-zine.

PRESENTATIONS

- "E-commerce: Today and tomorrow" RBS – American Chamber of Commerce Executive Seminar, March 2008. <http://www.amcham.lv/page.php?cat=454&id=1506>
- 20 Strategies to make Local companies Happen in the Global Economy, Banking Institution of Higher Education 9th International Conference 2007, Business and Finance Excellence in Emerging Market Economies, 27th September, 2007, Latvia
- Commercializing R&D: Entrepreneur's Perspective, AFCEA, August 16, 2007.
- Managing Leading Edge Technology Companies to Gain Competitive Advantage in Today's Dynamic Business Environments: The 6 Rules about Technology, 8th International Conference 2006: Riga as an International Financial Center: Exploring Opportunities and Challenges, *Banking Institution of Higher Education*, October, 2006, Riga, Latvia <http://www.ba.lv/conference2006/>
- Invited Talk, Plenary Session, "Hybrid AI and Military Applications", *DND Workshop on Advanced Technologies in Knowledge-based Systems and Robotics*, November, 1993.
- Invited Talk: "Conflict Resolution Expert System for Air Traffic Control", *Canadian Operational Research Society - Ottawa Chapter*, March, 1993.
- Bowen J.E., "Marketing and Artificial Intelligence: With Neural Network Market Segmentation Example," *The Canadian Operational Research Society Conference*, Canadian Operational Research Society, May 1991.
- Bowen J.E., "Using Neural Nets for Predicting Several Subsequent and Subsequential Future Values from Time Series Data," *The Canadian Operational Research Society Conference*, Canadian Operational Research Society, May 1991.

James Bowen, Ph. D., PMP, CMC

Bowen J.E., "Model Based Reasoning in Expert Systems: Decision Analysis Theories and Uncertainty Measurement Methods," *1990 Expert Systems Workshop*, NATO Working Group TTCP/HTP-7, September 1990.

Real-time and Temporal Issues of Expert Systems in ATC, *1990 Expert Systems Workshop*, NATO Working Group TTCP/HTP-7, September 1990.

WEBSITE LINKS

Web Links listing Dr James Bowen

Industry

- www.swlearning.com/pressroom/cat/Prof_Portfolio.pdf
- <http://www.emforum.org/varena/980527.htm>
- <http://www.ottawabusinessjournal.com/299657912725534.php>
- www.sce.carleton.ca/faculty/tanev/Workshop/Bailetti_CU_CA.pdf
- www.canada.com/calgaryherald/news/story.html?id=c6a209df-be83-4ed4-8f10-a4b38cc85757&k=20527
- <http://www.canada.com/ottawacitizen/news/business/story.html?id=0d8cb1f4-6caa-4851-a97c-bb0aba5d458e&k=81736>
- www.ba.lv/tools/download.php?name=invitation_8_conf.pdf
- <http://strategis.ic.gc.ca/app/ccc/search/navigate.do?language=eng&portal=1&subPortal=&estblmnTNo=123456036968&profile=completeProfile>
- www.leg.bc.ca/Hansard/35th4th/h0531pm.htm
- <http://www.ba.lv/conference2006/>
- http://archive.ottawabusinessjournal.com/archive_detail.php?archiveFile=./pubfiles/obj/archive/2000/May/12/6434.xml&start=0&numPer=20&keyword=bowen§ionSearch=&begindate=1%2F1%2F1999&enddate=1%2F31%2F2007&authorSearch=&IncludeStories=1&pubsection=&page=&IncludePages=1&IncludeImages=1&mode=allwords&archive_pubname=The+Ottawa+Busine ss+Journal%0A
- <http://www.ic.gc.ca/epic/site/aimb-dgami.nsf/en/03479e.html>
- <http://tpsgc.gc.ca/sipss/pspd/iss/holders/060-e.html>
- <http://www.companylisting.ca/CES/default.aspx>
- www.sce.carleton.ca/faculty/tanev/Workshop/Bailetti_CU_CA.pdf
- <http://www.consultingclinic.ca/aboutus.php?ref=mentors&lang=eng>
- <http://www.osbr.ca/ojs/index.php/osbr/about/editorialTeam>
- http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=332249

Academic

- http://www.telfer.uottawa.ca/component/listing,Bowen,%20James%20E./option.com_directory/page.viewListing/lid,104/Itemid,116/lang,en/
- <http://cga.laurentian.ca/hbcom/fcontent/faculty/index.asp>
- www.ba.lv/conference2006/prezentacijas/2/jamesbowen.pps
- www.allianceatlantis.tv/ProjectStudy1.pdf
- http://www.rmc.ca/admin/faculty/alphaB_e.html
- <http://72.14.205.104/search?q=cache:y0u9dOprI9oJ:doc-depot.telfer.uottawa.ca/syllabus/BAC/adm4---/adm4103.pdf+%22James+Bowen%22+thesis&hl=en&ct=clnk&cd=12&gl=ca>
- http://business.academickeys.com/browse_whoswho_by_field/General_Management?start=810
- <http://www.bsg-online.com/stats/mvp.html>

Writing

- <http://www.nationalcapitalscan.ca/news/mt-search.cgi?IncludeBlogs=1&search=bowen>
- http://www.productivepublications.com/global_wolves_are_at_the_door.htm
- <http://www.drj.com/articles/sum99/bow.htm>
- <http://www.drj.com/articles/sum99/open.htm>

James Bowen, Ph. D., PMP, CMC

- <http://opamp.com/cf/keyword.cfm?SRow=1&Keywords=GENER+SCIENC>
- www.leader2leaders.com/node/169/print
- www.ieeexplore.ieee.org/iel2/1086/7848/00332248.pdf?arnumber=332248
- www.ieeexplore.ieee.org/iel2/361/6074/00236593.pdf?arnumber=236593
- <http://www.ieeexplore.ieee.org/iel2/361/6074/00236577.pdf?arnumber=236577>
- <http://www.ieeexplore.ieee.org/iel2/1086/7848/00332248.pdf>
- http://www.thomsonedu.com/thomsonedu/instructor.do?product_isbn=9780538727013&discipline_number=415&maintab>About_the_Book&subtab=Overview
- www.refresh.com/archives18.html
- <http://www.business.ualberta.ca/informs/issues/Winter%202000/Cyberspace.html>
- <http://books.google.com/books?id=v0UHX15cEAEC&pg=PP9&lpg=PP9&dq=%22james+brown%22+ottawa&source=web&ots=4SBt1h60gV&sig=RnDE7x9LQr4B4Kc5wXLXlgKyRfo>
- <http://www.motivational-speakers.co.za/maelstrom-effect>
- http://books.google.ca/books?id=UQFyZI8vis4C&pg=PP11&lpg=PP11&dq=%22James+Bowen%22+Ottawa&source=web&ots=6vE0MleUuX&sig=gqmCHcUsOOc-Z24sL-MMKmbWbzu8&hl=en&sa=X&oi=book_result&resnum=4&ct=result
- http://www.ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=332247
- <http://www.ieeexplore.ieee.org/Xplore/login.jsp?url=/iel2/361/6074/00236577.pdf?arnumber=236577>
- <http://portal.acm.org/citation.cfm?id=66617.66627>

Credentials

- http://www.cmc-canada.ca/index.cfm?PID=12592&PIDLIST=12513,12592&consultant_id=2117
- <http://sprott.carleton.ca/~ianlee/research.htm>
- <http://www.pmforum.org/blogs/news/2007/08/call-for-papers-fifth-student-forum-on.html>
- http://www.pmworltdtoday.net/calls_for_papers/2007/oct.htm
- <http://www.telfer.uottawa.ca/mba/content/category/10/15/19/lang.en/>
- www.cmc-canada.ca/site/CAMC_21/pdf/cNotes-FM.pdf

Dace Apšvalka

GENERAL INFORMATION

First Name Dace
Last Name Apšvalka
Contact info Mobile Phone: +371 26335700
E-mail: Dace.Apshvalka@gmail.com

EDUCATION

School/University	Degrees/Diplomas
Riga Technical University, Faculty of Computer Science and Information Technology 2003– 2006	Received a certificate for completed theoretical part of doctoral studies.
Riga Technical University, Faculty of Computer Science and Information Technology 2000-2003	Master degree of Engineering Sciences in Computer Systems.
Riga Technical University, Faculty of Computer Science and Information Technology 1997-2000	Bachelor degree of Engineering Science in Computer Systems.

WORK EXPERIENCE

Date: 2000-now

Company: Riga Technical University, Department of System Theory and Design
Kalku 1, Riga, Latvia, LV-1658, +371 67089529

Position: Systems Analyst/Web Developer

Details

Developing, editing and administrating several web sites (XHTML, CSS, ASP, PHP, JavaScript, AcidCat, Drupal6) and databases (MySQL, MS Access). For example:

- BIR 2011 Conference <http://bir2011.rtu.lv> (Drupal CMS)
- Department of STD <http://stpk.cs.rtu.lv> (Drupal CMS)
- Business Informatics Programme <http://stpk.cs.rtu.lv/bi/> (Drupal CMS)
- Foundation "Kopa" (organisation advocating people with intellectual and developmental disabilities) <http://www.fondskopa.lv> (AcidCat CMS)
- Baltic Robot Sumo <http://www.balticrobotsumo.org> (AcidCat CMS)
- Robotics <http://www.robotika.lv> (AcidCat CMS)

Designing posters and presentation materials, developing software applications. Developing multimedia applications for presentation, advertising and lecturing purposes (Adobe Flash and video editing software).

Date: 2005-now

Company: Riga Technical University, Institute of Applied Computer Systems
Kalku 1, Riga, Latvia, LV-1658, +371 67089529

Position: Researcher

Details

Participating in scientific projects related to Knowledge Management and Artificial Intelligence. Publishing research results in scientific conferences. Lecturing on Knowledge Management both in Latvian and English. In 2007 I was a visiting lecturer in Bremen University of Applied Sciences (Germany) where I gave a 48 academic hour course on Knowledge Management.

Being organizing member of several international conferences, such as:

- 10th International Conference on Perspectives in Business Informatics Research, 2011, Riga, Latvia.
- 6th International Conference "E-learning and the Knowledge Society", August 25-27, 2010, Riga, Latvia.
- 13th East-European Conference on Advances in Databases and Information Systems, September 7-10, 2009, Riga, Latvia.
- 16th International Conference on Advanced Information Systems Engineering, June 7-11, 2004, Riga, Latvia.

Date: 2004-2005

Company: ELCL, Diaconia Center

Position: Computer administrator

Details

Developing and maintaining office network (MS Windows 2003, XP). Software installation, technical support and consultations. Web site maintenance and Web application development (HTML, CSS, ASP).

Date: 2001-2003

Company: State Land Service of the Republic of Latvia

Position: System Analyst

Details

System analysis for the development of Geographic Information System. Requirement specification, system's architecture and interface design. Presenting systems to end-users.

Date: 1999-2010

Company: ELCL, Diaconia Center

Position: Volunteer

Details

Developing Christian help-centre web site (HTML, CSS, ASP).

Installing hardware and software for a computer room in Day Centre for children.

ADDITIONAL EDUCATION/COURSES

24.08.2008. - 06.09.2008. The International Center for Computational Logic (ICCL) Summer School 2008, Computational Logic and Cognitive Science, Dresden (Germany).

19.-25.08.2007. International Training Course on Management Skills and Intersectoral Mobility, Tallin (Estonia) and Helsinki (Finland).

LANGUAGE SKILLS (0-5)

Language	Estimation
Latvian	5 (native)
English	5 (637 points in TOEFL PBT)
Russian	3
German	1

PUBLICATIONS

Apshvalka D.; Donina D.; Kirikova M.: Foresight process modelling. In: Scientific Proceedings of Riga Technical University, Computer Science, S. 5, Vol. 34, RTU, Riga, 2008, pp. 102-112, ISSN 1407-7493.

Apshvalka D., Donina D., Kirikova M. Understanding the problems of requirements elicitation: a human perspective. In: Information Systems development: Challenges in Practice, Theory and Education, Vol. 1., Ch. Barry, K. Conboy, M. Lang, G. Wojtkowski, and W. Wojtkowski (Eds.), Springer, 2009, pp. 211-224, ISBN: 978-0-387-30403-8.

Apshvalka D.: Challenges in Modelling Artificial Human-Like Agents. In: Scientific proceedings of Riga Technical University, Computer science, S. 5, Vol. 30, RTU, Riga, 2007, pp. 76-84.

Wendorff, P.; Apshvalka, D.: The Knowledge Management Strategy of Agile Software Development. In: Remenyi, D. (Editor): Proceedings of the 6th European Conference on Knowledge Management (ECKM), Limerick, Ireland, September 8-9, 2005, pp. 607-614.

Apshvalka, D.; Wendorff, P.: A Framework of Personal Knowledge Management in the Context of Organisational Knowledge Management. In: Remenyi, D. (Editor): Proceedings of the 6th European Conference on Knowledge Management (ECKM), Limerick, Ireland, September 8-9, 2005, pp. 34-41.

Apshvalka, D.; Wendorff, P.: Reflections on the Body of Knowledge in Software Engineering. In: Nilsson, A. G. et al. (Editors): Proceedings of the 14th International Conference on Information Systems Development (ISD), Karlstad, Sweden, August 14-17, 2005, pp. 995-1006.

Apshvalka D., Grundspenkis J.: Personal Knowledge Management and Intelligent Agent Perspective. In: Pre-conference Proceedings of the 14th International Conference on Information Systems Development (ISD'2005), Karlstad, Sweden, 15-17 August, 2005.

Apshvalka D., Grundspenkis J.: Personal and Organizational Knowledge Management as a Driving Force for Business Process Effectiveness. In: Information Technologies for Business 2005, Proceedings of the International Conference. Vilnius University, Kaunas Faculty of Humanities. Kauna May 27, 2005. pp. 9 - 14.

Wendorff, P.; Apshvalka, D.: Human Knowledge-Management and Decision-Making in Software Development Method Selection. In: Roland Petrasch, Reinhard Höhn, Stefan Höppner, Herbert Wetzel, Manuela Wiemers (Editors): Entscheidungsfall Vorgehensmodell (Proceedings of the 12th Annual Workshop of the German Informatics Society Special Interest Group WI-VM), Berlin, Germany, April 14-15, 2005, pp. 143-157.

Apshvalka D., Personal Knowledge Management, Remenyi, D. (Editor): Proceedings of the 11th European Conference on Information Technology Evaluation (ECITE), Amsterdam, Netherlands, November 11-12, 2004, pp.17-22.

Apshvalka D., Grundspenkis J., Making Organizations to Act More Intelligently in the Framework of Organizational Knowledge Management System, Scientific proceedings of Riga Technical University, Computer science, 5th series - Riga: RTU, 2003. - Vol.17.- pp.

Curriculum Vitae

Name: Egons
Surname: Lavendelis

Education

September 2006 – December 2009 Riga Technical University. **Doctoral degree of engineering science in information technology awarded.** Doctoral thesis: Open Multi-Agent Architecture and Methodology for Intelligent Tutoring System Development.

September 2004 – July 2006 Riga Technical University. **Master degree with excellence of engineering science in computer systems awarded.** Master thesis: „Modelling of interaction mechanisms in multi-agent systems”.

September 2001 – July 2006 Riga Technical University. **Bachelor degree with excellence of engineering science in computer control and computer science.** Bachelor thesis: „Analysis of formalization approaches for multi-agent systems”

Till 2001 Riga State Gymnasium No 1.

Languages

Latvian – native, Russian – speaking fluent, reading intermediate level
English – fluent, German – intermediate level.

Employment History

Since October 2010. Riga Technical University, Department of Systems Theory and Design, Systems Analyst.

Since March 2007 Riga Technical University, Institute of Applied Computer Systems, Researcher.

October 2005-March 2007 Riga Technical University, Department of Systems Theory and Design, Assistant Researcher.

Since 2002. Riga Technical University, Sports Club, Trainer of the RTU Chess Team.

Additional experience

Tournament director and chief organizer of the International Chess Festival RTU Open 2011 (166 participants)

Tournament director of the Higher League of the Latvian Team Chess Championship 2011.

Tournament director of the Latvian Team Chess Championship and Club Cup 2011.

Scientific projects

Since May, 2011 participant of the work package at ERAF project Nr. 2010/0258/2DP/2.1.1.1.0/10/APIA/VIAA/018 „Development of intelligent agent, modelling, and web Technologies based distributed insurance software” (ERAF programme „Entrepreneurship and innovations”, priority Nr. 2.1 „Science and innovations”, action 2.1.1 „Science, research and development”, activity Nr. 2.1.1.1 „Support to science and research”). Project leader: L. Novickis (Riga Technical University).

Since October 2010 leader of the work package at ERAF project Nr. 2010/0258/2DP/2.1.1.1.0/10/APIA/VIAA/005 „Development of technology for multiagent robotic intelligent system” (ERAF programme „Entrepreneurship and innovations”, priority Nr. 2.1 „Science and innovations”, action 2.1.1 „Science, research and development”, activity Nr. 2.1.1.1 „Support to science and research”). Project leader: J.Grundspenkis (Riga Technical University).

Since October 2010 Leader of the Internal research project of Riga Technical University „Development of student model based intelligent tutoring system’s prototype”.

Since May, 2010. Participant of the National Research Programme’s project „New information technologies based on ontologies and transformation” (RTU project leader prof. J. Grundspenkis).

October 2009 – September 2010. Participant of the Internal research project of Riga Technical University „ Development of Learning objects repository and intelligent tutoring system for intellectual learning support”.

Since 2009,. Grant of Latvian Academy of Science Nr. 09.1269 "Development of an intelligent applied software based on distributed artificial intelligence and web technologies. Project leader: J.Grundspenkis (Riga Technical university Department of Systems Theory and Design).

01-12.2006. Participant of project funded by Ministry of Education and Science of Latvia and Riga Technical university “ Development of the Information System’s Concept for Supporting Scientific Activities at Riga Technical University”. Project leader: J.Grundspenkis (Riga Technical university Department of Systems Theory and Design).

2006. gada jūnijs līdz decembris. Latvijas Republikas Izglītības un Zinātnes ministrijas un Rīgas Tehniskā universitātes pētnieciskā projekta „*Informācijas sistēmas koncepcijas izstrāde RTU zinātniskās darbības atbalstam*” dalībnieks.

06-12.2005. Participant of project funded by Ministry of Education and Science of Latvia and Riga Technical university F6962 “Intelligent system for the effectiveness analysis support of process-oriented learning”. Project leader: J.Grundspenkis (Riga Technical university Department of Systems Theory and Design).

September 2005- December 2006 participant of 6th IP project eLOGMAR-M (Web-based and Mobile Solutions for Collaborative Work Environment with Logistics and Maritime Applications).

Scientific publications

1. E. Lavendelis, J. Bicans. „Multi-Agent and Service Oriented Architectures for Intelligent Tutoring System Development”. In Scientific Journal of Riga Technical University 2011 (accepted for publication).
2. E. Lavendelis and J. Grundspenkis “MASITS Methodology Supported Development of Agent Based Intelligent Tutoring System MIPITS” In "Communications in Computer and Information Science" (CCIS), Springer, 2010 (accepted for publication).

3. Lavendelis E., Grundspenķis J. MIPITS - An Agent based Intelligent Tutoring System. Proceedings of 2nd International Conference on Agents and Artificial Intelligence (ICAART 2010) Vol. 2., SPĀNIJA, Valensija, 22.-24. janvāris, 2010. pp. 5-13.
4. Lavendelis E., Grundspenķis J. Multi-Agent Based Intelligent Tutoring System Source Code Generation Using MASITS Tool. Scientific Journal of Riga Technical University 2010 (pieņemts publicēšanai).
5. Lavendelis E., Grundspenķis J. MASITS - A Tool for Multi-Agent Based Intelligent Tutoring System Development. Proceedings of 7th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS 2009), Salamanca, Spain, 25-27 March 2009. Advances in Intelligent and Soft Computing Vol. 55., Springer, 2009, pp. 490-500.
6. Lavendelis E., Grundspenķis J. Design of Multi-Agent Based Intelligent Tutoring Systems. RTU Zinātniskie raksti, 5. sērija, Datorzinātne, Lietišķās datorsistēmas, 38. sējums. Izdevniecība "RTU", Rīga, 2009, pp. 48-59.
7. Lavendelis E., Grundspenķis J. Requirements Analysis of Multi-Agent Based Intelligent Tutoring Systems. RTU Zinātniskie raksti, 5. sērija, Datorzinātne, Lietišķās datorsistēmas, 38. sējums. Izdevniecība "RTU", Rīga, 2009, pp. 37-47.
8. Lavendelis E., Grundspenķis J. MASITS – A Multi-Agent Based Intelligent Tutoring System Development Methodology. In Proceedings of IADIS International Conference „Intelligent Systems and Agents 2009”, 21-23 June 2009, Algarve, Portugal, pp. 116-124.
9. Anohina A., Lavendelis E., Grundspenķis J. Concept Map Based Knowledge Assessment System with Reduction of Task Difficulty. Information Systems Development “Challenges in Practice, Theory and Education” (Proceedings of the 16th International Conference on Information Systems Development (ISD`2007), August 29-31, 2007, Galway, Ireland), Vol.2, Springer, 2009, pp. 853-866.
10. Lavendelis E., Grundspenķis J. Open Holonic Multi-Agent Architecture for Intelligent Tutoring System Development. Proceedings of IADIS International Conference „Intelligent Systems and Agents 2008”, Amsterdam, The Netherlands, 22-24 July 2008, pp. 100-108.
11. Lavendelis E., Stankevica L., Atvare D., Pozdņakovs D., Kirikova M. Development of the Information System's Concept for Supporting Scientific Activities at Riga Technical University. RTU Zinātniskie raksti, 5. sērija, Datorzinātne, Lietišķās datorsistēmas, 30. sējums. Izdevniecība "RTU", Rīga, 2007. 125.-137. lpp.
12. Lanka A., Grundspenķis J., Anohina A., Pozdnyakov D., Lavendelis E. Knowledge assessment and self-assessment in the process-oriented learning, using intelligent system based on concept maps. Starpaugstskolu Zinātniski praktiskā un mācību metodiskā konference “Mūsdienu izglītības problēmas”, Transporta un sakaru institūts, 2006. gada 23.-24. februārī, Rīga, Latvija, 65.-68. lpp.
13. Lavendelis E., Grundspenķis J. Simulation Tool for Multicriteria Auctions in Transportation and Logistics Domain. Proceedings of the International Conference on Computer Systems and Technologies – CompSysTech'06, June 15-16, 2006, Veliko Tarnovo, Bulgaria, ACM Bulgaria, 2006, pp. IIIB.17-1 - IIIB.17-6.
14. Grundspenķis J., Lavendelis E. Multiagent Based Simulation Tool for Transportation and Logistics Decision Support. Proceedings of the 3rd International Workshop on Computer Supported Activity Coordination – CSAC 2006, May 16-19, 2006, Cyprus, Paphos, pp. 45-54.

Participation in Scientific Conferences

1. October 14, 2010. RTU 51st International Scientific Conference with presentation „Multi-Agent and Service Oriented Architectures for Intelligent Tutoring System Development”, Riga, Latvia.
2. January 22-24, 2010. 2nd International Conference on Agents and Artificial Intelligence (ICAART 2010) with presentation „MIPITS – An Agent based Intelligent Tutoring System”, Valansia, Spain
3. October 14, 2009. RTU 50th International Scientific Conference with presentation „Multi-Agent Based Intelligent Tutoring System Source Code Generation Using MASITS Tool” (līdzautors J. Grundspenķis), Riga, Latvia.
4. July 17-23m 2009. IADIS International Conference „Intelligent Systems and Agents 2009” with presentation „MASITS – A Multi-Agent Based Intelligent Tutoring System Development Methodology” (līdzautors J. Grundspenķis), Algarve, Portugal.
5. March 25-27, 2009. 7th International Conference on Practical Applications of Agents and Multi-Agent Systems with presentation „MASITS - A Tool for Multi-Agent Based Intelligent Tutoring System Development”, Salamanka, Spain.
6. October 13-15, 2008. RTU 49th International Scientific Conference with presentation „Requirements Analysis of Multi-Agent Based Intelligent Tutoring Systems”, Riga, Latvia.
7. October 13-15, 2008. RTU 49th International Scientific Conference with presentation „Design of Multi-Agent Based Intelligent Tutoring Systems”, Riga, Latvia.
8. July 22-24, 2008. IADIS International Conference „Intelligent Systems and Agents 2008” with presentation „Open Holonic Multi-Agent Architecture for Intelligent Tutoring System Development”, Amsterdam, The Netherlands.
9. October 12-14, 2006. RTU 47th International Scientific Conference with presentation „Development of the Information System’s Concept for Supporting Scientific Activities at Riga Technical University” Riga, Latvia.
10. July 13-17, 2006. International Conference on Computer Systems and Technologies – CompSysTech’06 with presentation „Simulation Tool for Multicriteria Auctions in Transportation and Logistics Domain”, Veliko Tarnovo, Bulgaria..
11. May 23-26, 2006. 3rd International Workshop on Computer Supported Activity Coordination – CSAC 2006 with presentation “Multiagent Based Simulation Tool for Transportation and Logistics Decision Support”, Pafos, Cyprus.

Research interests

Artificial intelligence, multi-agent systems, intelligent tutoring systems, agent oriented software engineering.

Teaching courses

Laboratory works at the courses DSP422 „Artificial Intelligence” un „Advanced Data technologies” DSP708. Lectures at DSP105 „Introduction to Study Field”.

Awards

January, 2010. Best paper award at the section dedicated to intelligent agents of the „2nd International Conference on Agents and Artificial Intelligence (ICAART 2010)”.

2006. Master thesis by E. Lavendelis have been nominated as the best master thesis in the Faculty of Computer Science and Information Technology of RTU and received the prize of the Latvian Fund of Education “For Science, Education and Culture”
August 2001. Golden Scholarship of Riga City Council
July, 2001. Honourably mention at the World Physics Olympiad.

Interests and hobbies

Chess (FIDE Master, best achievements – two times Latvian champion with the Team RTU, Bronze medallist of Latvian Men Championship 2010, Latvian Junior champion,), other brain games, nature, fishing.

E. Lavendelis

Greg Mathers

MBA, RTU Riga Business School
BA, University of Nevada, Reno

Current Teaching

Behavioral and Organizational Concepts for
Management
Leadership
Managerial Communications

Education

- Education

Riga Business School, Riga Technical University, Riga, Latvia, MBA
University of Nevada, Reno, BA in Communications and Journalism

Work Experience

ACADEMIC EXPERIENCE

2001-pres. RIGA BUSINESS SCHOOL, Riga, Latvia, Professor of Business Administration. Designed and teach three courses in the professional and executive MBA programs: first semester required course in Behavioral and Organizational Concepts for Management, a mid-level elective in Managerial Communications, and an upper-level elective in Organizational Leadership.

2003 GRODNO SCHOOL OF MANAGEMENT, Grodno State University, Grodno, Belarus (May-July); visiting Professor. Designed and taught first year required course in organizational behavior.

1999-2000 CONCORDIA INTERNATIONAL UNIVERSITY, Tallinn, Estonia, Adjunct Professor of Business Administration. Designed and taught elective course in Entrepreneurship to both graduate and undergraduate students.

BUSINESS EXPERIENCE

2004 SPECIAL CONSULTANT to The Job Journey, a new educational video aimed at young adult job seekers. Provided guidance in the development of experiential learning materials and group activities as well as the successful recruitment of a national marketing director. Release date spring/summer 2005.

1996- pres. CONSULTANT in Estonia, Latvia, and Lithuania to a variety of private sector organizations in various industries. Primarily focus on management development, organizational design issues, and designing and implementing training programs in the areas of sales, customer service, and leadership. These activities include problem-solving with company leadership, organizational surveying and designing, documenting, and delivering 1 to 7-day workshops. Clients in banking, retailing, travel and tourism, manufacturing, IT, and others.

1993-1996 FUTURE DESIGNS LTD., co-founder and director of tourist publications and advertising company in Tallinn, Estonia. Coordinated company start-up around a free advertiser supported tourist map of Tallinn's Old Town. Full responsibility for company operations. Over three-year period developed three additional advertiser supported products and drove annual sales from \$0 to over \$500,000. Company opened Finland operations in 2000 and currently occupies leading position in Estonian tourist publication market.

1994-1997 TDA Ltd., Fat Margaret's Cafe; founder and director of company. Developed business plan and restaurant theme and raised start-up capital of \$45,000. Developed restaurant operating systems and standards for product and service quality in all customer/company interactions. Hired, trained and managed company management and seasonal staff of 10-23 employees. Developed and implemented marketing plans based on first-to-market services such as home/office delivery, client cards, special theme nights, VIP club, etc. Sold restaurant in October 1997.

Memberships

1996-1998 American Chamber of Commerce, Estonia. Founding member, vice president
2003 Latvian Genbukan Ninpo Bugei Federation, Founder and president of ninjutsu martial arts organization associated with Genbukan Ninpo Bugei International Federation in Saitama, Japan.

Major

- Specialization

Leadership, Organizational Behavior, Managerial Communications

Other

- Other things, what couldn't be classified above

Married with two daughters and one son; excellent health; black belt instructor in martial arts; enjoy reading and competitive running; dedicated learner and committed to excellence.

CURRICULUM VITAE

1. General Information

Name, Surname: **Gundars Alksnis**

Education: July 28th, 2008: received Dr.sc.ing. in Information Technology from Riga Technical University (RTU). Doctoral studies: 2003.-2006.
2000-2003: received Mg.sc.ing. in Computer Systems from RTU
1997-2000: received B.sc.ing. in Computer Control and Computer Science from RTU

Academic Career: Since February 1st, 2009: Assistant Professor at RTU
2006-2009: Lector at RTU
2005-2006: Assistant at RTU
2000-2005: Baltic Data SIA, Software Engineer.

Language Skills: Latvian: Native;
English: Fluently in IT Communication;
Russian: Fluently in IT Communication.

Additional: IEEE Computer Society, Associate Member (since 2006)
ACM Professional Member (since 2006)

2. Scientific Activities and Publications for Last Six Years

▪ Scientific Publications:

1. **Alksnis G.** Category Theoretic Integration Framework for Formal Notations in Model Driven Software Engineering// Advances in Databases and Information Systems. Associated Workshops and Doctoral Consortium of the 13th East-European Conference, ADBIS 2009. Revised Selected Papers. Eds: J. Grundspenkis, M. Kirikova, Y. Manolopoulos, L. Novickis. – Springer LNCS Volume 5968/2010. – Springer, 2010. - pp. 177-184.
2. **Alksnis G.** Application of Category Theory to Integrate Formal Specification Languages in Model Driven Architecture, PhD Thesis. – Rīga: Riga Technical University, 2008. – 144 p. (In Latvian)
3. **Alksnis G.** Application of Category Theory to Integrate Formal Specification Languages in Model Driven Architecture, Summary of Doctoral Thesis. – Riga: RTU Publishing, 2008. – 31 p. (In Latvian)
4. **Alksnis G.** Application of Category Theory to Integrate Formal Specification Languages in Model Driven Architecture, Summary of Doctoral Thesis. – Riga: RTU Publishing, 2008. – 32 p.
5. **Alksnis G.** The Analysis of UML State Machine Formal Checking Methods// Proceedings of the 10th International Conference Information System Implementation and Modeling (ISIM'07). Eds: A. Kelemenová, D. Kolář, etc. – Opava: Silesian University, 2007. – pp. 131–136.
6. **Alksnis G.** UML stāvokļu mašīnu modeļu formālās pārbaudes metožu salīdzinoša analīze// Computer Science, Applied Computer Systems, Scientific Proceedings of Riga Technical University, Vol.26, Nr.5 – Rīga: RTU izdevniecība, 2007. – 28.–37. lpp. (In Latvian)
7. **Alksnis G.** Formal Methods and Model Transformation Framework for MDA// Proceedings of the 1st International Workshop on Formal Models (WFM'06). Eds. D. Kolář, A. Meduna. – Ostrava: MARQ, 2006. – pp. 87–94.

8. **Alksnis G.** Formal Specification Languages and Category Theory Within the Framework of MDA// Computer Science, Applied Computer Systems, Vol.26, Nr.5, Scientific Proceedings of Riga Technical University, Riga: RTU Publishing, 2006. – pp. 33–41.
9. **Alksnis G.**, Asnina E., Osis J., Silins J. Formalization of Software Development: Problems and Solutions// Computer Science, Applied Computer Systems, Scientific Proceedings of Riga Technical University, Vol.22, Nr.5 – Riga: RTU Publishing, 2005. – pp. 204–216.

4. Pedagogical Activities

- Courses Currently Taught at RTU:
 1. DPI404 Visual Programming (Study Project)
 2. DPI723 Visual Programming Fundamentals (Study Project)
 3. DPI232 Object-Oriented Programming
 4. DPI409 Implementation of Service Oriented Systems
 5. DPI700 Storage Networking
 6. DSP707 Service Science, Management, and Engineering
- Number of Supervised Bachelor Theses and Qualification Works (2004.-2011.): 24.

* * *

**EDUCATION AND
TRAINING**

- Dates (from – to) October 2003- February 2005
- Name and type of organisation Institute for Law and Finance, J. W. Goethe University Frankfurt am Main
- Principal subjects Corporate, commercial, financial, banking law, EC competition law
 - Title of qualification awarded LL.M (Finance) with A- diploma grade

- Dates (from – to) October- December 2002
- Name and type of organisation School of Legal Studies, University of Sussex
- Principal subjects Law and policy of the EC, commercial law, international and European human rights law, environmental law
 - Title of qualification awarded Erasmus exchange during LL.B. studies

- Dates (from – to) September 2000- May 2003
- Name and type of organisation Law School, Concordia International University Estonia
- Principal subjects Comparative, international and European Union law
 - Title of qualification awarded Summa Cum Laude LL.B.

**ACADEMIC
EXPERIENCE**

- Dates (from – to) 2009 - onwards
- Name and address of employer Riga Business School, 11 Skolas street, Riga, Latvia, LV-1010
- Type of business or sector University
 - Occupation or position held Lecturer of Business law to MBA students
- Main activities and responsibilities Teaching of business law

- Dates (from – to) 2008 - onwards
- Name and address of employer The University of Latvia, 19 Raina blv., Riga, Latvia, LV-1586
- Type of business or University

sector	
• Occupation or position held	Lecturer of Latvian competition law (professional master's degree in law)
• Main activities and responsibilities	Teaching of competition law course; thesis supervision
• Dates (from – to)	2006 – 2009
• Name and address of employer	Riga's Stradina University, 16 Dzirciema street, Riga, LV-1007
• Type of business or sector	University
• Occupation or position held	Lecturer of theory of law (bachelor's degree in European studies)
	Lecturer of EC company law (master's degree in Business and Law in the European Union)
	Guest lecturer in course of the EC competition law (master's degree in Business and Law in the European Union)
• Main activities and responsibilities	Teaching of theory of law course, EC company law course, guest lecturer on Latvian competition law in EC competition law course

**PUBLICATIONS /
RESEARCH/LEGAL
DRAFTING:**

- Prohibition of Abuse of Dominant Position, Law and Justice, August/September/October 2008
- Competition in the Market of Sworn Bailiffs, a study commissioned by the Competition Council in year 2007, completed and presented to the Competition Council in November 2007
- Amendments to the Competition Law – Improvements and Shortcomings, Law and Justice, June/July 2007
- Consultation of the Law Commission of the Parliament (*Saeima*) about the Proposed Amendments to the Competition Law, August/September 2007
- Current Practices and Future Implications in Application of Article 81 to Payment Card Systems, LL.M. thesis submitted at the Institute for Law and Finance
- Romanian International Insolvency Law, co-author with Mr Oliver von Schweinitz, http://www.iiiiglobal.org/country/romania/Romanian_Insolv.pdf
- From Ex Ante to Ex Post Enforcement of Article 81: Efficiency, Legal Certainty and Community Enlargement, LL.B thesis submitted at Concordia International University Estonia, European Journal of Law Reform 2004 issue 1/ 2

PROFESSIONAL EXPERIENCE

• Dates (from – to)	August 2004 – onwards
• Name and address of employer	Liepa, Skopina / Borenius, Lacplesa 20a, LV-1011, Riga, Latvia
• Type of business or sector	Attorneys-at-law/admitted to Bar Association, assistants' section, in 2005
• Occupation or position held	Partner since 2009, Head of EU and Regulatory practice group

- Main activities and responsibilities Client consultation, drafting: competition law, corporate law, financial law

- Dates (from – to) February- April 2004
- Name and address of employer European Central Bank, 29 Kaiserstrasse, D-60311, Frankfurt am Main, Germany
- Type of business or sector DG Legal Services, Institutional Law Division
 - Occupation or position held Intern
- Main activities and responsibilities
 - Research of intellectual property issues concerning Euro sign
 - Proposals for combating unfair business practices in Euro banknote production
 - Survey of professional secrecy rules of the National Central Banks

- Dates (from – to) June 2002- October 2003
- Name and address of employer European Integration Bureau, 14 Basteja boulevard, LV-1050, Riga, Latvia
- Type of business or sector Department of Sectoral Policies
 - Occupation or position held Senior desk officer/ lawyer
- Main activities and responsibilities Coordination of EU accession with regards to the following sectors: customs union, free movement of goods, competition, environment

- Dates (from – to) July- September 2001
- Name and address of employer Lejins, Torgans & Vonsovics, 20 Kr. Valdemara street, LV-1010, Riga, Latvia
- Type of business or sector Attorneys-at-law
 - Occupation or position held Intern
- Main activities and responsibilities Legal research, drafting: corporate law, labour law

**PERSONAL SKILLS
AND COMPETENCES**

MOTHER TONGUE **LATVIAN**

OTHER LANGUAGES

	ENGLISH	RUSSIAN	FRENCH
• Reading skills	Excellent	Excellent	Good
• Writing skills	Excellent	Basic	Poor
• Verbal skills	Excellent	Good	Poor

ORGANISATIONAL Team work: during university and work related projects

SKILLS AND
COMPETENCES

Intercultural skills: gained during studies and while working in different European countries

Presentation and lecturing: developed during university studies as well as while participating in EU information campaign organized by the European Integration Bureau

Media training: received in two-day interactive training course on handling any interaction with press and media representatives

Seminar and conference organization: of EU information campaign and various seminars while working for the European Integration Bureau

TECHNICAL SKILLS
AND COMPETENCES

Microsoft word, Office, Explorer

DRIVING LICENCE(S)

B category



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s)

Ilmars Slaidins

Desired employment / Occupational field

Electronic technologies/education and research

Work experience

Dates	From 2006 -
Occupation or position held	professor
Main activities and responsibilities	Lecturing and supervision of lecturers and assistants in the study field; evaluation and assessment; Research and supervision of doctoral research in the electronic technology field; participation in the development of study programs and evaluation of the quality of education.
Name and address of employer	Faculty of Electronics and Telecommunications, Riga Technical University
Type of business or sector	Radio Electronics
Dates	From 2005 -
Occupation or position held	Head of Department of Radio Systems
Main activities and responsibilities	Supervision of design of study programs, administration of research and study process in the Department.
Name and address of employer	Faculty of Electronics and Telecommunications, Riga Technical University
Type of business or sector	Radio Electronics
Dates	1995 - 2005
Occupation or position held	Dean
Main activities and responsibilities	Administration
Name and address of employer	Faculty of Radioengineering and Communication (from 2000 Faculty of Electronics and Telecommunications), Riga Technical University
Type of business or sector	Radio Electronics
Dates	2002-2006
Occupation or position held	Associate professor
Main activities and responsibilities	Lecturing and supervision of lecturers and assistants in the study field; evaluation and assessment; Research and supervision of doctoral research in the electronic technology field; participation in the development of study programs and evaluation of the quality of education.
Name and address of employer	Faculty of Electronics and Telecommunications, Riga Technical University
Type of business or sector	Radio Electronics
Dates	1992-1995
Occupation or position held	Expert
Main activities and responsibilities	Analysis of radio and television broadcasting condition sin the country and elaboration of proposals for development; preparation of documentation and issuing of broadcasting licences.

Name and address of employer	Latvian Radio and Television Council
Type of business or sector	Radio and Television Broadcasting
Dates	1988-1994
Occupation or position held	Head of Department of Radio Systems
Main activities and responsibilities	Supervision of design of study programs, administration of research and study process in the Department.
Name and address of employer	Faculty of Radioengineering and Communication, Riga Polytechnic Institute (till 1990) Riga Technical University (since 1990).
Type of business or sector	Radio Electronics
Dates	1987-1988
Occupation or position held	Guest Researcher
Main activities and responsibilities	Research of low frequency noise features in semiconductor devices and development of efficient measurement methods.
Name and address of employer	Brno Technical University, Czechoslovakia.
Type of business or sector	Electronics
Dates	1971-1982
Occupation or position held	Researcher and Lecturer
Main activities and responsibilities	Research of low frequency noise features in semiconductor devices and development of efficient measurement methods; lecturing in the study field; evaluation and assessment of learning; supervision of engineering studies and research in electronic technology field.
Name and address of employer	Faculty of Radioengineering and Communication, Riga Polytechnic Institute.
Type of business or sector	Radio Electronics

Education and training

Dates	1978-1982
Title of qualification awarded	PhD
Principal subjects/occupational skills covered	Engineering Science, Radio Electronics
Name and type of organisation providing education and training	Faculty of Radioengineering and Communication, Riga Polytechnic Institute.
Dates	1966-1971
Title of qualification awarded	Radioengineer
Principal subjects/occupational skills covered	Knowledge and skills in radioengineering, higher professional education in speciality 0701.
Name and type of organisation providing education and training	Faculty of Radioengineering and Communication, Riga Polytechnic Institute.

Courses

- June 2002, Virtual Learning and Collaboration, OPEKO, Tampere, Finland, certificate;
- March- May, 1997, Project management course, University of Latvia, certificate;
- 1995-1996 Distance education course, EADTU, certificate.

Mother tongue(s) **Latvian**

Other language(s)

Self-assessment

European level ()*

English

Czech

Russian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	A2	Basic user
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user

(*) [Common European Framework of Reference for Languages](#)

Organisational and administrative activities	<p>Dean of the Faculty of Electronics and Telecommunications, Riga Technical University (1999-2005).</p> <p>University Senate Member (1999-2005).</p> <p>Head of the RTU Senate Commission on Infrastructure (2000-2003).</p> <p>Member of Promotion Council RTU P-08 (from 2006).</p> <p>Expert of the Latvian Science Council</p> <p>Member of the Programme Committees and Reviewer of papers of the RTU International Research Conferences, EAEEIE Conferences, Lithuanian IT Conferences;</p> <p>Reviewer of Research Grants of the Czech Academy of Sciences and Latvian Science Council;</p> <p>Latvian representative in EU e-Infrastructure Reflection Group (eIRG) (from 2003), member of eIRG eIRG Education and Training Task Force (2006-2008).</p>																		
Pedagogical activities	<p>Teaching the following courses:</p> <ul style="list-style-type: none">• Introduction to the Study Field 1.5 ECTS• Radio Systems 3 ECTS• Scientific and Technical Information and Documentation 3 ECTS• Radio Receivers 3 ECTS• Radio Receivers (project) 3 ECTS• Signal reception 4.5 ECTS• Probability and Statistics in Signal Reception 3 ECTS• Distance Learning and e-learning Methodology and Technology 5 ECTS• Project planning and Management 3 ECTS• Networking Technologies in Education 3 ECTS• Electronic Technologies (for doctoral students) 20 ECTS <p>Supervisor of bachelor and Master Thesis:</p> <table><tr><td></td><td>2006</td><td>2007</td><td>2008</td><td>2009</td><td>2010</td></tr><tr><td>Bachelor</td><td>11</td><td>13</td><td>6</td><td>4</td><td>0</td></tr><tr><td>Master</td><td>1</td><td>3</td><td>6</td><td>9</td><td>4</td></tr></table>		2006	2007	2008	2009	2010	Bachelor	11	13	6	4	0	Master	1	3	6	9	4
	2006	2007	2008	2009	2010														
Bachelor	11	13	6	4	0														
Master	1	3	6	9	4														
Research and project management activities	<p>Expert in FP5 project HERN (2002-2004) and FP6 project “Enhanced Learning Unlimited” (2005-2008);</p> <p>FP6 NoE KALEIDOSCOPE member (Technology Enhanced Learning);</p> <p>FP6 I3 BalticGrid and FP7 I3 BalticGrid-II project manager (2005-2010);</p> <p>FP7 eInfraNET project expert and manager LAS (2010 -)</p> <p>ERDF project “Research and development of m-learning products and services in Latvia considering up to date multimedia, telematics and telecommunication technologies” expert and manager (2006-2008);</p> <p>Member of the Program Committees of RTU Scientific Conferences, EPE-PEMC 2004 conference, IT2009, IT2010 (Lithuania) and EAEEIE conferences, as well as reviser of papers;</p> <p>Project manager of Latvian Science Council research grants (1996-2007);</p> <p>Project manager of SOCRATES projects in RTU: THEIERE, THEIERE DIS “Thematic harmonisation in Electrical and Information Engineering in Europe” (2000-2005), BOLDIC “The Baltic-Nordic network for Exchange of Experience” (2002-2005);</p> <p>Leonardo da Vinci and LLL programme project manager in RTU “IST Requalification of Disabled Persons”(2004-2007); E-IM „E-learning Innovation management Course for Vocation Training” (2010-) un E_xcellence (2011-);</p> <p>Expert in Leonardo da Vinci projects: E3 “European Centre of Excellence for e-learning” (2003-2006), INFLOW “Informal learning Opportunities in the Workplace”(2004-2007);</p> <p>Manager and expert of 3 European Social Fund education projects (2005-2008).</p>																		
Papers	<p>Over 40 publications on Electronic and IT Technologies;</p> <p>25 publications on Distance Learning and e-learning;</p> <p>6 publications on Radio and TV Broadcasting.</p>																		

Other skills and competences	Expert in distance learning and e-learning methodology and technology
Driving licence	B category driver licence
Annexes	List of recent papers (6 years)

1. L. Cikovskis, S. Vdovins, I. Slaidins. Multipath Routing with Adaptive Carrier Sense for Video Applications in Wireless Ad-hoc Networks. Elektronika ir Elektrotechnika. (Lithuania). 2011, Nr. 6(112), p.37-42.
2. L. Cikovskis, J. Kūliņš, S. Vdovins, I. Slaidiņš, B. Žuga. Ad-hoc and Wireless Mesh Networks for Mobile Peer-to-Peer Collaboration. Scientific Journal of RTU. Series 7. Telecommunications and Electronics, 2009, vol.9, pp.50-57.
3. B. Zuga, I. Slaidins. Virtual Collaboration in Wireless Networks. Proceedings of RTU. Series 7. Telecommunications and Electronics, 2007, vol.7, pp.41-44.
4. I. Slaidins, O. Belmanis. Baltic Grid for e-Science Development in Baltics. Proc. of the Spanish Conference on e-Science Grid Computing, March 1-2, 2007, Madrid, CIEMAT, p. 61-65.
5. G. Lapina, I. Slaidins. Innovation in Study Methodology for Enhancement of Competitiveness of the Graduates of Electronics Study Program. European Integration Studies. Kaunas University of Technology, Institute of Europe. 2007, No. 1, p.75-80.
6. J. Borzovs, J. Grundspenķis, E. Karnītis, I. Slaidiņš. Informātika – droša programmatūra, integrētas informācijas un komunikāciju sistēmas un tīkli, elektroniskās tehnoloģijas. Latvijas ZA Vēstis, Sociālo un humanitāro zinātņu sērija, 2006, 60. sēj., Nr.3-4, 109-115 lpp.
7. G. Balodis, A. Sozontovs, B. Zuga, I. Slaidins. Performance estimation for MIMO channel. Proc. of 10th Biennial Baltic Electronics Conference, Oct. 7-11, 2006, Tallinn, Estonia. Tallinn University of Technology, p.141-144.
8. B. Zuga, I. Slaidins, A. Kapenieks, A. Strazds. M-learning and Mobile Knowledge Management: Similarities and Differences. Int. Journal of Computing&Information Sciences, vol.4, No.2, August 2006, on-line, p.58-62.
9. G. Lapiņa, I. Slaidiņš. RTU Elektronikas profesionālās studiju programmas analīze un perspektīvā attīstība. Rakstu krājumā "Pētījumi pieaugušo pedagogijā". Redaktore T. Koķe. Latvijas universitāte, 2005. 77-87 lpp.
10. M. Zeltins, I. Slaidins. Bipolar Junction Transistor 1/f Noise Simulation and Parameter Extraction Technique. Elektronika ir Elektrotechnika. (Lithuania). 2005, Nr. 4(60), p.77-80.
11. I. Slaidins, M. Zeltins. Accuracy of 1/f noise Parameter Extraction in the Presence of Background Noise. Proc. 18th Int. Conf. On Noise and Fluctuations –ICFN 2005, September 19-23, 2005, Salamanca (Spain), American Institute of Physics, 2005. p.665-668.
12. G. Stale, I. Slaidins, A. Kapenieks. A new approach of e-learning solutions for empowerment of people in regional development context. Annual Proceedings of Vidzeme University College "ICTE in Regional Development", 2005, p. 132-136.

Personal Data

First name: Ilze
Last name: Birzniece
Position: Researcher at Riga Technical University
Address: 1 Kalku street, Riga, LV-1658, Latvia

Education:

2009 - Still studying Riga Technical University, Latvia, Doctoral studies, Computer Systems
2007 - 2009 Riga Technical University, Latvia, Master studies, Computer Systems
2004 - 2007 Riga Technical University, Latvia, Bachelor studies, Computer Science and Information Technology

Language skills

Latvian native
English good
Russian average
German basic

Academic career

12/2009 - Still working Riga Technical University, Researcher
06/2007 - 12/2009 Riga Technical University, Research assistant
07/2006 - Still working Riga Technical University, Work with entrants at university selection committee in summer. Last three years held the leader position.

Scientific interests

Machine learning, inductive learning, data mining
Topic of PhD thesis "Interactive use of inductive approach for analysing and developing conceptual structures"

List of publications

Birzniece I. Artificial Intelligence in Knowledge Management: Overview and Trends /// 10th International Conference on Perspectives in Business Informatics Research, Latvia, Riga, October 6-8, 2011. (accepted)

Birzniece I. Interactive Inductive Learning Based Classification System // Proceedings of the IADIS International Conference Intelligent Systems and Agents 2011, Italy, Rome, July 24-26, 2011, pp.112-116.

Birzniece I., Rudzajs P. Machine Learning Based Study Course Comparison // Proceedings of the IADIS International Conference Intelligent Systems and Agents 2011, Italy, Rome, July 24-26, 2011, pp.107-111.

Birzniece I. Interactive Inductive Learning Based Study Course Comparison // Proceedings of the Red-Conference: Rethinking Education in the Knowledge Society, Switzerland, Ascona, March 7-10, 2011, pp.339-347.

Birzniece I., Kirikova M. Interactive Inductive Learning: Application in Domain of Education // Scientific Journal of Riga Technical University. Computer Sciences. - Applied Computer Systems, 2011, pp. 1.-8. (in press)

Birzniece I. Interactive Inductive Learning System // Frontiers of AI and Applications. Databases and Information Systems VI, Vol. 224, Selected Papers of Baltic DB&IS'2010, IOS Press, 2011, pp. 380-393.

Birzniece I. Interactive Inductive Learning System: The Proposal // Proceedings of the Ninth International Baltic Conference Baltic DB&IS 2010, Latvia, Riga, July 5-7, 2010, pp. 245-260.

Birzniece I., Kirikova M. Interactive Inductive Learning Service for Indirect Analysis of Study Subject Compatibility // Proceedings of the BeneLearn 2010, Belgium, Leuven, May 27-28, 2010, pp. 1-6. Available at http://dtai.cs.kuleuven.be/events/Benelearn2010/submissions/benelearn2010_submission_9.pdf

Birzniece I. The Use of Inductive Learning in Information Systems // Proceedings of 16th International Conference on Information and Software Technologies, Lithuania, Kaunas, April 22-23, 2010, pp. 95-101.

Vanags M., Nikitenko A., Ekmanis M., Andersone I., Birzniece I., Kuļikovskis G. Service Oriented Mine Hunting Classroom Simulation System // Proceedings of the 4th International Scientific Conference on Applied Information and Communication Technologies, Latvia, Jelgava, April 22-23, 2010, pp. 94-100.

Birzniece I. From Inductive Learning towards Interactive Inductive Learning // Scientific Journal of Riga Technical University. Computer Sciences. - Applied Computer Systems, 2010, pp. 106-112. Included in VERSITA data base.

Pedagogical experience

Giving part of the lectures in Bachelor and Master courses *Introduction into Study Field, Knowledge Management, Fundamentals of Computer Systems Design, Enterprise Architecture and Requirements Engineering*.

Giving part of the practical classes in Master courses *Business Process Management and Engineering, Knowledge Management*.

Projects

03/2011 - 12/2011	The Baltic-German University Liaison Office project "Knowledge reuse and sharing in fractal and networked enterprises" (RTU project Nr. S 1563; agreement Nr. 01000-10/2011/07) in cooperation with The University of Rostock - member
01/2011 - 12/2011	"Methods and Models Based on Distributed Artificial Intelligence and Web Technologies for Development of Intelligent Applied Software and Computer System Architecture" (grant of Latvian Academy of Science Nr.09.1269) – member
02/2011 - 11/2011	National research program "Development of innovative multi-functional material, signal processing and information technologies for competitive science-intensive products" 5th project „New information technologies based on ontologies and model transformation" 5.2 subproject - member
10/2009 - 09/2010	„Development of the method and the prototype for the normalization and linkage of computer-based competence descriptions" (RTU research project Nr. ZP-2009/15) in cooperation with Lattelecom – member
01/2008 - 04/2010	Riga Technical University and Ministry of Defence project "Design of IMANTA (ALKMAAR) class mine hunter training simulation system and software" (Nr. L7318.) – member

Other experience

Member of *ADBIS 2009 (The 13th East-European Conference on Advances in Databases and Information Systems)* organizing committee

Member of *BIR 2011 (10th International Conference on Perspectives in Business Informatics Research)* organizing committee

Professional development

Seminars	<p>"Introduction to SPSS Statistics", DPA, 16 h, May 27 – June 3 2011</p> <p>"Preparing PhD thesis", Riga Technical University, 20 h, January 11 – April 19 2011</p> <p>"Publication as criterion of researcher's work quality", Riga Technical University, 21 h, March 17 – April 28 2011</p>
Courses	"Java Academy", <i>Exigen Services</i> , 100h, May 2 – July 4 2011

Awards

- 2007 Riga Technical University acknowledgements of excellent results in studies and active social work
- 2007 Exigen Services award for 3rd best Bachelor's thesis in computer science in Latvia

Janis Bergs

Work experience

June 2006 – Present

Chairman of the board of FMS (Finance Management Solutions) LTD.

FMS is privately held company, 80 employees, develops and implements enterprise management software.

Currently I am chairman of the board and biggest shareholder of FMS (www.fms.lv) also I have stake and interest in several other IT related ventures in Baltics, like BKA www.bka.lt (IT training center in Lithuania), Fortek IT (hardware reseller in Lithuania and Byelorussia) www.fortech.lt, CityCredit (mico - payment operator) www.citycredit.lv, SMC (credit card payment gateway) www.smc.lv

July 2004 – November 2005

CEO of Microlink Group

(Privately held company; 600 employees; Information Technology and Services industry)

I have worked for Microlink for over 12 years, and during that time over 20 companies were bought and integrated to form largest Pan- Baltic IT company, also several companies were sold or floated, like Delfi and SAF Tehnika (www.delfi.lv, www.saftehnika.com). I finished my employment with Microlink after it was successfully sold to the consortium of Baltic Telecoms (Elion of Estonia, Lattelecom of Latvia and Teo of Lithuania)

January 2000 - July 2004

Board member of Microlink Group, CEO of Microlink Latvia

1993 – 2000

I held various positions in Fortech Ltd (starting from field technician). Fortech was sold in 2000 to Microlink and later was renamed to Microlink Latvia

Education

1997 - 2000

Riga Business School

MBA, graduated in 2000

Riga Technical university

Bachelor in Radio engineering, graduated in 1993

Social activities

2004 – until present

Board member of LIKTA (Latvian Association of Information and Communication Technologies) www.likta.lv

2005 – until present

Chairman of board of Latvian IS Cluster. www.is.lv

IS cluster is an organization that links Latvian technology companies that are interested to develop their international business.

CURRICULUM VITAE

Jānis Eiduks

TITLE: Dr.Sc.ing.

OCCUPATION:

Associated Professor

Department of System Theory and Design in Riga Technical University

EDUCATION :

Engineer Riga Politechnical Institute (1964 - 1969)

(Automation and Telemechanics)

Dr.Sc.ing. Riga Politechnical Institute (1975 -1978)

(Technical Cybernetics and Information Theory)

LECTURE COURSES :

Database technology, Large databases, Advanced databases, Multibases, Design of databases, Information Systems Design, CASE Tools,

Information Theory, System Analysis and Mathematical Modelling in Economic,

Mathematical Methods in Management, Operation Research, Methodes of Optimization

AREAS OF SCIENTIFIC ACTIVITIES :

Design of data bases

Design of information systems

Data base management systems

Multicriterial optimization

LANGUAGES :

Latvian - mother tongue

English - fluent

Russian - fluent

PUBLICATIONS :

85 publications, 5 books

PROJECTS:

Supervisor and designer of 17 projects of Information System Design.

Expert in Information Technologies of EC projects PHARE, MOCURIS, Baltic Palette I, Baltic Palette II, member of the Steering Committee of the International Conference on Advanced Data Bases and Information Systems.

Curriculum Vitae

Jānis Grabis

Institute of Information Technology, Riga Technical University
Kalku 1, Riga LV-1658, Latvia

Education:

Dr. eng. sc. Department of Operations Research, Riga Technical University (RTU, Latvia), 2001

M. eng. sc., Department of Operations Research, RTU, 1997 (diploma with distinction)

B. eng. sc., Faculty of Computer Science, RTU, 1995

Employment:

Professor, Institute of Information Technology, Riga Technical University, 2008-

Associate Professor, Institute of Information Technology, Riga Technical University, 2004-2008

Docent, Department of Operations Research, Riga Technical University, 2003-2004

Research Associate, Department of Industrial and Manufacturing Systems Engineering, University of Michigan - Dearborn, 2001-2003

Research Assistant, Department of Operations Research, Riga Technical University, 1997-2001

Programmer, Latvian Central Bureau of Statistics, 1997-1998

Research Fellowships:

Department of Process Control, Royal University of Technology (Sweden, January-March, 1999),
The Jonson Foundation Fellowship

Department of Statistics, Uppsala University (Sweden, September-December, 1998), The Nordic
Council of Ministers Fellowship

School of Industrial Management, University of Ghent (Belgium, February-April, 1996), TEMPUS
fellowship

Teaching:

Development of two study programs, teaching and development of 5 graduate courses mainly in area
of enterprise application and information technology project management, advisor to more than 25
master thesis, advisor to four doctoral students, defense of the doctoral thesis for one of the students
is scheduled in Fall, 2011.

Awards received:

Master Diploma with distinction, 1997

Three times holder of the SWH IZK foundation scholarship (1996-1997) granted for high grades
and research activity

European Social Fund New Scientist Fellow, 2005-2006

Professional Membership:

Member of the Latvian Society of Simulation and Modelling

Professional Service:

Chair of Program Committee, 10th International Conference on Perspectives in Business Informatics Research, Riga, Latvia, October 6-8, 2011.

Program committee member, 13th International Conference on Enterprise Information Systems, Beijing, China, June 8 - 11, 2011.

Program committee member, 12th International Conference on Enterprise Information Systems, Funchal, Madeira - Portugal, June 8 - 12, 2010.

Program committee member for the 9th International Baltic Conference on DB and IS, Riga, Latvia, July 5-7, 2010.

Program committee member for the 11th International Conference on Enterprise Information Systems, Milan, Italy, May 6 - 10, 2009.

Doctoral consortium Program committee member for the 13th East-European Conference on Advanced Databases and Information Systems, Riga, Latvia, September 7-10, 2009.

Associated Editor for the 18th European Conference on Information Systems, Pretoria, RSA, June 7-9, 2010.

Associated Editor for the 17th European Conference on Information Systems, Verona, Italy, June 8-10, 2009.

Program committee member for The 2006 International Business Information Management Conference, Brescia, Italy, December 14 – 16, 2006.

Associate guest editor for International Journal of Manufacturing Technology and Management special issue on „Reconfigurable manufacturing systems: Concepts, technologies and applications”, 2007-2008.

Associate guest editor for OMEGA special issue „Role of flexibility in supply chain design and modeling”, 2007-2008.

Member of the Board of the Faculty of Computer Science and Information Technology, Riga Technical University, 2008 –.

Research Projects

RTU side project lead of INTEREG IIIC „Regional Geomatics Initiative” in 2007, project lead of four national research projects, leading investigator in 5 international research projects in collaboration with University of Michigan-Dearborn and leading investigator in 6 national research projects. Project lead in three industrial projects.

Publications

One monograph together with Charu Chandra “Supply Chain Configuration: Concepts, Solutions, and Applications” published by Springer in 2008, 12 publications in scientific journals and more than 30 other publications.

The selected main publications are:

1. Bonders, M., Grabis, J., Kampars, J. (2011), Combining Functional and Nonfunctional Attributes for Cost Driven Web Service Selection, in *Frontiers in Artificial Intelligence and Applications*, Barzdins, J., Kirikova, M. (eds) 224, 227-239.
2. Bonders M., Grabis J., Kampars J. (2010) Web Service Selection: Beyond Quality of Service, *DB&IS 2010*, Riga, Latvia, July 5-7, 2010, 100-107.
3. Grabis, J., Ģ. Folkbergs (2010), Integration of Decision-Making Components into ERP systems, *Proceedings of the 9th International Conference on Perspectives in Business Informatics Research*, P. Forbrig, H. Gunther (eds.), 43-51.
4. Grabis, J. C. Chandra (2010), Process Simulation Environment for Case Studies, *Proceedings of the 2010 Winter Simulation Conference*, B. Johansson, S. Jain, J. Montoya-Torres, J. Huan, and E. Yücesan, eds., 317-326.
5. Grabis, J., Ivaņeckā, A. (2009), Continuous improvement of enterprise applications, *Proceedings of BIR 2009 The 8th International Conference on Perspectives in Business Informatics Research*, October 1-2, Kristianstad, Sweden, 95-100.
6. Grabis, J., Kirikova, M., Vanags, J. (2009), Information architecture of fractal information systems, *Proceedings of 11th International Conference on Enterprise Information Systems*, 6 - 10, May 2009, Milan, Italy, 150-155.
7. Grabis, J., Berzisa, S. (2009), An Approach for Implementation of Project Management Information Systems, in Papadopoulos, G. A., Wojtkowski, W., Wojtkowski, W. G., Wrycza, S., & Zupancic, J. (eds) *Information Systems Development: Towards a Service Provision Society*, Springer-Verlag: New York, 423-432.
8. Chandra, C., Grabis, J. (2009), A Goal Model Driven Supply Chain Design, *International Journal of Data Analysis Techniques and Strategies*, Volume 1, 3, 224-241
9. Chandra, C., Grabis, J. (2008), Information Technology Support for Integrated Supply Chain Modeling, *Human Systems Management*, 27, 1, 3-13.
10. Chandra, C., Grabis, J. (2009), Reconfigurable manufacturing systems: meeting the challenges of a dynamic business paradigm, *International Journal of Manufacturing Technology and Management*, 17, 1-2, 1-4.
11. Chandra, C., Grabis, J. (2009), Configurable supply chain: Framework, methodology and application, *International Journal of Manufacturing Technology and Management*, 17, 1-2, 5-22.
12. Chandra, C., Grabis, J. (2008), Inventory management with variable lead-time dependent procurement cost, *Omega: The International Journal of Management Science* 36, 5, 877-887.
13. Chandra, C., Grabis, J., Tumanyan, A. (2007), Problem taxonomy: A step towards effective information sharing in supply chain management, *International Journal of Production Research* 45 (11), 2507-2544.
14. Grabis, J., Kampars, J., Bonders, M. (2006), A Methodology for Integration of Spatial Data in Enterprise Applications, *Proceedings of the 7th International Business Information Management Association Conference*, December 7-9, Italy, 169-175.
15. Chandra C., Grabis, J. (2006), Object-oriented approach to implementation of supply chain optimization and simulation models, *Proceedings of European Modeling and Simulation Conference*, October 4-6, Barcelona, Spain, 297-305.

16. Chandra, C., Grabis, J. (2005), Multi-objective supplier selection using simulated cost estimates, Proceedings of 17th European Symposium on Modelling and Simulation (ESMS), October 20-22, 2005, Marseille, France, 143-149.
17. Chandra, C., Grabis, J. (2005), Application of multiple-steps forecasts to restrain the bullwhip effect, European Journal of Operational Research 166, 2, 337-350.
18. Chandra, C., Everson, M., Grabis, J. (2005), Evaluation of enterprise-level benefits of flexibility, OMEGA: The International Journal of Management Science, 33, 1, 17-31.
19. Grabis, J., Persson, A., Stirna, J. (eds.) (2004), Knowledge and Model Driven Information Systems Engineering for Networked Organisations: CAISE'04 Forum Proceedings, The 16th Conference on Advanced Information Systems Engineering, Riga, Latvia, 7 – 11 June, 2004.
20. Merkurjev, Y., Petuhova, J., Grabis, J. (2004), Managing Service-Sensitive Demand Through Simulation, in Supply Chain Optimization: product/process design, facility location and flow control, Dolgui, A. et al. (eds.), Kluwer Academic Publishers, 41-55.
21. Chandra, C., Grabis, J. (2003), A data driven approach to automated simulation model building, Proceedings of the 18th European Simulation Symposium, ESS2003, October 26-29, Delft, The Netherlands, 509-514.

Curriculum Vitae

Jānis Grēviņš

Izglītība

- 08./97. – 08./02.** Zinātņu doktors uzņēmumu vadīšanas sistēmās Ņujorkas štata universitātē Bufalo (SUNY at Buffalo), Ņujorkas štats, ASV. Papildspecialitāte: uzņēmumu organizācija. Disertācija "Project Virtuality Effects on Project Team Processes and Project Success" (Projekta virtualitātes ietekme uz procesiem projekta vadības komandā un projekta rezultātiem) aizstāvēta 2002. gada jūnijā.
- 8./95. – 01./97.** Maģistra grāds biznesa vadīšanā (MBA) ar specializāciju ražošanas vadīšana. Ņujorkas štata universitātē Bufalo (SUNY at Buffalo), Ņujorkas štats, ASV.
- 9./91.-6./95.** Bakalaura grāds uzņēmējdarbības ekonomikā, Latvijas Universitātes, Ekonomikas fakultātē.

Darba pieredze

- 1/10 - līdz šim laikam** Projekta vadītājs „MBA programmas angļu valodā izveide Baltkrievijā”. Darba pienākumi ietver projekta stratēģisko un akadēmisko vadīšanu, sadarbību ar Baltkrievijas valsts struktūrām un finansējuma piesaisti. Līdz šim piesaistīti apmēram 5 milj. ASV dolāru no valstu valdībām un privātiem fondiem.
- 4./03 – līdz šim laikam** Direktors, Rīgas Tehniskās universitātes Rīgas Biznesa skolā.
- 7./02-līdz šim laikam** Padomes loceklis, Lattelecom SIA.
- 9./99.- 06./03.** Projektu koordinators, Ņujorkas štata universitātes Bufalo (SUNY at Buffalo) Vadības fakultātē, Ņujorkas štats, ASV. Darba pienākumi ietver projekta taktisko vadīšanu un darbu ar sponsoriem MBA programmas izveides projektā Janka Kupala vārdā nosauktās Grodņas valsts universitātē (JKGVU), Baltkrievijā. Projekts ir vairāku gadu sadarbības iniciatīva starp Bufalo universitāti, Rīgas Tehniskās universitātes Rīgas Biznesa institūtu un JKGVU. Projekta finansēšanai ir piesaistīti vairāk kā 500,000 ASV dolāru no privātiem sponsoriem ASV.
- Vasarās 2000.,1999., 1998.** Konsultants un lektors Rīgas Tehniskās universitātes Rīgas Biznesa institūtā
- 8./97. – 5./99.** Doktorants un lektors, Ņujorkas štata universitātes Bufalo (SUNY at Buffalo) Vadības fakultātē, Ņujorkas štats, ASV.
- 3./97. – 8./97.** Pagaidu Padomes vadītājs Rīgas Tehniskās universitātes Rīgas Biznesa institūtā. RBI struktūras reorganizācija un mācību programmu pārkārtošana.
- 1./97. – 3./97.** Darbs firmā I-Stat Canada Ltd., Otava, Kanāda
Jauna programmatūras moduļa izstrādāšana mikroprocesoru kvalitātes statistiskās kontroles sistēmai.
- 2./96. – 5./96.** Darbs firmā Graphic Controls Corporation Bufalo, Ņujorkas štats, ASV
Informācijas sistēmas reorganizācijas projekta izstrādāšana personāla un starptautiskajām nodaļām

Mācību un zinātniskās intereses

Projektu vadīšana: cilvēciskie aspekti, globālā projektu vadīšana, saziņas līdzekļu izmantošana.

Ražošanas un pakalpojumu vadīšana: piegādes sistēmu vadīšana, tieši laikā piegādes.

Pedagoģiskā pieredze

- 2003. - līdz šim** Lekcijas par informācijas tehnoloģiju, piegāžu ķēžu un e-komercijas attīstības tendencēm pasaules organizācijās.
- 1998., 2001. vasara** Lektors Rīgas Tehniskās universitātes Rīgas Biznesa institūtā. Projektu vadīšana (Maģistra līmeņa kurss). Kurss apskata projektu plānošanas un realizācijas aspektus mūsdienu organizācijās un uzņēmumos.
- 1997., 2000. vasara** Lektors Rīgas Tehniskās universitātes Rīgas Biznesa institūtā. Ražošanas un pakalpojumu vadīšana (Maģistra līmeņa kurss). Kurss apskata dažādus ražošanas un pakalpojumu organizācijas aspektus ražošanas un pakalpojumu uzņēmumos.
- 1999. pavasaris** Lektors Ņujorkas štata universitātē Bufalo (SUNY at Buffalo). MGQ302 Ražošanas un uzņēmuma vadīšana. (Bakalaura līmeņa pamatkurss) Kursā apskata uzņēmuma vadīšanā izmantojamās statistiskās metodes un to izmantošanu ražošanas un pakalpojumu vadīšanā.
- 6./93.-8./ 98.** Lektors, Rīgas komercskolā, (tagad SIA "Komercizglītības centrs")
Lektors vidējā un augstākā līmeņa uzņēmuma vadītājuursos "Decision Base" un "Rūpējies par savu firmu"

Pedagoģiskās un profesionālās kvalifikācijas paaugstināšana

- 08./98.** Asistenta mācību seminārā Ņujorkas Štata universitātē Bufalo (SUNY at Buffalo), Ņujorkas štats, ASV.
- 8./96.** Lektoru mācību seminārā Prinča Edvarda Salas universitātē (University of Prince Edward Island), Kanādā.
- 8./96.** Pedagoģiskās kvalifikācijas paaugstināšanas kursi Otavas universitātē (University of Ottawa), Kanādā.
- 10./96.** Nekustamā īpašuma vērtēšanas mācības Amerikas Vērtētāju Asociācijā (American Society of Appraisers) Vašingtonā, ASV.
RP201 - Ievads nekustamo īpašumu vērtēšanā;
RP202 – Nekustamo īpašumu vērtēšanas metodoloģija – Ienākumus nesošie īpašumi. Ievadkurss.
RP203 – Nekustamo īpašumu vērtēšanas metodoloģija – Ienākumus nesošie īpašumi. Augstākā līmeņa kurss.

Publikācijas un konferences

- Grevins, Janis., O'Donnell, Joseph B., Sanders, G. Lawrence., Suresh, Nallan C. 2002. "Project Virtuality Effects on Project Team Trust and Project Success" (Projektu virtualitātes ietekme uz projekta komandas uzticēšanos un projekta veiksmi) prezentēts un publicēts tēžu krājumā Decision Sciences institūta gadskārtējā sanāsmē Sandiego (Kalifornijas štats) ASV, 2002. gada 26. novembrī.
- Grevins, Janis., Innus, Voldemars. 2001. "The Role of Leadership in Virtual Project Management" (Līdera loma virtuālo projektu vadīšanā) prezentēts un publicēts tēžu krājumā "11th International Conference on Information Systems Development" (11. starptautiskā konference par informācijas sistēmu attīstību) Rīga, 2002. gada 12. septembrī.
- Grevins, Janis 2002. "Internet Surveys – Opportunities, Limitations and Design Issues" (Interneta aptaujas – iespējas, ierobežojumi un noformējuma jautājumi) prezentēts "11th International Conference on Information Systems Development symposium on research methods" (11. starptautiskās konferences par informācijas sistēmu attīstību simpozijā par zinātniskajām metodēm) Rīga, 2002. gada 11. septembrī.
- Grevins, Janis., Sanders, G. Lawrence., Suresh, Nallan C. 2002. "Impact of project virtuality on project management processes and project performance" (Projektu virtualitātes ietekme uz projektu vadīšanas procesiem un projektu rezultātiem) prezentēts un publicēts tēžu krājumā "PMI Research Conference 2002: Frontiers of Project Management Research and Application" (Projektu Vadīšanas Institūta zinātniskā konferencē 2002. – Projektu vadīšanas zinātne un pielietojšanas perspektīvas), Sietlā (Vašingtonas štats) ASV 2002. gada 14.-17. jūlijam.

- Grevins, Janis., Innus, Voldemars. 2001. "Potential of Virtual Project Management Practices in Extending Participation of Latvian Institutions in International Projects: the Case of MBA Program Development in Grodno by the University at Buffalo and Riga Business School" (Virtuālo projektu vadīšanas metožu pielietošanas iespējas Latvijas organizāciju starptautiskajos projektos: Bufalo universitātes un RTU Rīgas Biznesa institūta kopprojekts biznesa vadīšanas maģistra (MBA) programmas izveidošanai Grodņas Valsts universitātē) "II Pasaules latviešu zinātnieku kongresa tēžu krājumā" Rīga, Latvija.
- Grevins, Janis., Sanders, G. Lawrence., Suresh, Nallan C. 2000. "The role of Project Management Software in Project Management Process and Project Success." (Projektu vadīšanas programmatūras ietekme uz projektu vadīšanas procesu un projekta rezultātiem) prezentēts un iekļauts tēžu krājumā "Project Management Research at the Turn of the Millennium – Proceedings of PMI Research Conference 2000, Paris, France" (Projektu vadīšanas zinātne gadsimta griežos – Projektu Vadīšanas Institūta Zinātniskā Konference 2000, Parīzē, Francijā). Newton Square, PA. Project Management Institute.
- Grēviņš, Jānis., Grēviņa, Ruta. 1997. "Piegāžu 'tieši laikā' iespējas un problēmas" Latvijas Universitātes Ekonomikas un vadības fakultātes, Mikroekonomikas katedras zinātnisko rakstu krājumā "Uzņēmējdarbības ekonomikas aktuālās problēmas" Rīga: Latvijas Universitāte.

Sabiedriskās aktivitātes

- 01./09 – līdz šim** Latvijas Tirdzniecības un Rūpniecības kameras Zināšanu ekonomikas darba grupas loceklis
- 09./06 -** Rīgas Tehniskās universitātes Senāta Informāciju tehnoloģiju komisijas priekšsēdētāja vietnieks
- Rīgas Tehniskās universitātes Senāta Stratēģijas komisijas loceklis un 2008-2015. gadu stratēģijas izstrādes darba grupas loceklis
- 01./05 – līdz šim** AIESEC Latvijas nodaļas padomnieku padomes loceklis.
- 09./09 – 08./10** Likteņdārza augusta koncerta plānošanas grupas loceklis, Kokneses Fonds
- 05./09 – 09./09** Rīgas Ekonomikas augstskolas tālākas darbības stratēģijas tehniskās darba grupas loceklis
- 06./06 – 09./09** Projekta "Latvijas zinātnes (akadēmiskais) tīkls attīstība" darba grupas loceklis. Projekts apvieno 60% Latvijas akadēmisko institūciju (pēc studentu skaita) un 80% Latvijas zinātnisko institūciju (pēc budžeta), ar mērķi izveidot modernu nākamās paaudzes informācijas tīklu.
- 9./04 – 12./06** Latvijas Republikas Ārlietu Padomes loceklis
- 4./98. –** Projektu vadīšanas Institūta biedrs (Project Management Institute) ASV
- 1./91. – 5./94.** Konsultants ekonomiskajos jautājumos, Junior Achievement ASV filiālē Latvijā
- Strādāju pie programmas pielāgošanas Latvijā.

Cita informācija

- Dzimtā valoda** Latviešu
- Svešvalodas** Angļu, krievu
- Datorprogrammas un valodas** Visas Microsoft biroja programmas, Microsoft Visio, Microsoft Project, SPSS, SQL (Strukturēto pieprasījumu valoda), Visual Basic, HTML, Cold Fusion

Name	<i>Janis Grundspenkis</i>
Position	<i>Professor, Systems Theory</i>
Academic Career	<p><i>Dr.habil.sc.ing. (higher doctoral degree in engineering), Riga Technical University, 1993.</i></p> <p><i>Dr.sc.ing. (doctoral degree in engineering), Riga Technical University, 1992.</i></p> <p><i>Candidate of technical sciences (postgraduate degree), Riga Polytechnical Institute, 1972.</i></p> <p><i>Electrical engineer, specialization: automation and telemechanic, Riga Polytechnical Institute, 1965.</i></p>
Employment	<p><i>Dean of Faculty of Computer Science and Information Technology, Riga Technical University, since 1994.</i></p> <p><i>Director of Institute of Applied Computer Systems, Riga Technical University, since 1994.</i></p> <p><i>Head of the Department of Systems Theory and Design, Riga Technical University, since 1994.</i></p> <p><i>Head of the Department of Automated Control Systems, Riga Technical University, 1980-1992.</i></p> <p><i>Professor of Systems Theory, Riga Technical University, since 1994.</i></p> <p><i>Assistant professor, Riga Polytechnical Institute, 1979-1994.</i></p> <p><i>Assistant and lecturer, Riga Polytechnical Institute, 1972-1979.</i></p> <p><i>Doctoral student, Riga Polytechnical Institute, 1968-1971.</i></p> <p><i>Engineer, Riga Polytechnical Institute, 1963-1968.</i></p>
Research and development projects over the past five years	<p><i>Project leader of Latvian Science Council grant 09.1582 „Methods and Models Based on Distributed Artificial Intelligence and Web Technologies for Development of Intelligent Applied Software and Computer System Architecture”, 2009-2012.</i></p> <p><i>Project leader of Latvian Science Council grant 05.1644 "Integration of intelligent agent and knowledge management techniques for intelligent support of learning processes", 2005-2008.</i></p> <p><i>Project leader of ESF project "Improvement of computer science courses of the RTU academic study programme "Computer Systems"", 2006-2008.</i></p> <p><i>Project leader of ESF project "Improvement of the RTU academic study programme "Computer Systems" for promotion of occupational competitiveness of graduates", 2006-2007.</i></p> <p><i>Project leader of ESF project "Improvement of academic study programme "Computer Systems", 2005-2007.</i></p> <p><i>Coordinator of SOCRATES/ERASMUS project "ETN TRICE – Erasmus European Thematic Network for Teaching, Research, Innovation in Computing Education", 2008-2011.</i></p> <p><i>Coordinator of European Commission 6th Framework project „KALEIDOSCOPE”, 2004-2008.</i></p> <p><i>Coordinator of SOCRATES/ERASMUS project "ETN DEC – Erasmus European Thematic Network for Doctoral Education in Computing", 2004-2007.</i></p> <p><i>Coordinator of European Commission LEONARDO DA VINCI project "SocSimNet – Competence Network for Introduction of Modern ICTE Technologies in Vocational Learning in Social Systems Simulation and Research", 2004-2006.</i></p>
Cooperation with industry over the past five years	<i>None</i>
Patents and protected rights	<i>None</i>

Publications	<p>14 recent publications from a total of around 200:</p> <ol style="list-style-type: none"> 1. Grundspenkis, J. <i>Concept Map Based Intelligent Knowledge Assessment System: Experience of Development and Practical Use. Multiple Perspectives on Problem Solving and Learning in the Digital Age</i>, Springer Science+Business Media, LLC, New York, Dordrecht, Heidelberg, London, 2011, pp. 179-198. 2. Grundspenkis, J. <i>MIPITS and IKAS – Two Steps towards Truly Intelligent Tutoring System Based on Integration of Knowledge Management and Multiagent Techniques. Proceedings of the International Conference on E-learning and the Knowledge Society</i>, August 26-27, 2010, Riga, Latvia, pp. 22-39. 3. Grundspenkis J. <i>Usage Experience and Student Feedback Driven Extension of Functionality of Concept Map Based Intelligent Knowledge Assessment System. Communication and Cognition</i>, 1-2, 2010, pp. 1-20. 4. Grundspenkis J. <i>Concept Maps as Knowledge Assessment Tool: Results of Practical Use of Intelligent Knowledge Assessment System. Proceedings of the IADIS International Conference Cognition and Exploratory Learning in Digital Age (CELDA 2009)</i>, Italy, Rome, 20.-22. November, 2009. pp 258-266. 5. Grundspenkis J. and Mislevics A. <i>Intelligent Agents for Business Process Management Systems. Infonomics for Distributed Business and Decision-Making Environments: Creating Information System Ecology</i> (M. Pankowska, Ed.), IGI Global, 2009, pp. 97-131. 6. Grundspenkis J. <i>Knowledge Creation Supported by Intelligent Knowledge Assessment System. Proceedings of the 12th World Multi-Conference on Systemics, Cybernetics and Informatics</i>, June 29-July 2, 2008, Orlando, Florida, USA, Volume VII, IIS, Orlando, Florida, USA, pp. 135-140. 7. Anohina, A. and Grundspenkis, J. <i>A Concept Map Based Intelligent System for Adaptive Knowledge Assessment. In Vasilecas, O., Eder, J., Caplinskas, A. Frontiers in Artificial Intelligence and Applications, Vol.155, Databases and Information Systems IV. Amsterdam: IOS Press, 2007, pp.263-276.</i> 8. Grundspenkis, J. <i>Agent Based Approach for Organization and Personal Knowledge Modelling: Knowledge Management Perspective. Journal of Intelligent Manufacturing</i>, 52, 2007. 9. Grundspenkis, J. <i>Intelligent Agent and Knowledge Management Perspectives for the Development of Intelligent Tutoring Systems. Proceedings of the 9th International Conference on Enterprise Information Systems (ICEIS 2007), Madeira, Portugal, June 13-16, 2007, Vol. SAIC, pp. 380-388.</i> 10. Anohina, A., Graudina, V., Grundspenkis, J. <i>Using concept maps in adaptive knowledge assessment. Advances in Information Systems Development: New Methods and Practice for the Networked Society, Vol.1, Magyar G., Knapp G., Wojkowski W., Wojkowski W.G., Zupančič J. (Eds.), Springer US, 2007, pp. 469-479.</i> 11. Kirikova, M. and Grundspenkis, J. <i>Towards knowledge management oriented information system: supporting research activities at the technical university. Advances in Information Systems Development: New Methods and Practice for the Networked Society, Vol. 1, Magyar G., Knapp G., Wojkowski W., Wojkowski W.G., Zupančič J. (Eds.), Springer US, 2007, pp.135-145.</i> 12. Grundspenkis J. <i>Information Society Development in Latvia: Current State and Perspectives. In: Advances in Information Systems Development – Bridging Gap Between Academia and Industry, Vol.1, (A. G. Nilsson, et. al., Eds.), Springer, NY, 2005, pp. 471-480.</i>
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	<p>13. Grundspenkis J. and Kirikova M. <i>Impact of the Intelligent Agent Paradigm on Knowledge management. Intelligent Knowledge-Based Systems</i> (C.T. Leondes, Ed.), Vol.1, Kluwer Academic Press, NY, 2004, pp. 164-206.</p> <p>14. Grundspenkis J. <i>Development of Hybrid Intelligent Systems: Integration of Structural Modelling, Intelligent Agent and Knowledge Management Techniques. Scientific Proceedings of Riga Technical University, 5th series, Computer Science, Applied Computer Systems, Vol. 17, Riga, RTU, 2003, pp. 7-30.</i></p>
Participation in specialist organisations over the past five years	<p><i>Chairman of IEEE Computer Society Latvia Chapter.</i></p> <p><i>Chairman of expert commissions for evaluation and accreditation of study programmes in Computer Science and Information Technology in Latvia and Estonia.</i></p> <p><i>Chairman of the Council for Scientific Degree Promotion in Information Technology.</i></p> <p><i>Member of the Council of Latvian Modelling and Simulation Society</i></p> <p><i>Member of the Council of Association of Baltic Operation Research Societies (BaltORS).</i></p>

Kaspars Osis

Objective	Career in the fields of Software Engineering and Information Systems where combination of my excellent interpersonal and multicultural skills, international experience, and strong analytical background can be translated into improvement growth and profitability.		
Education	2007 - now	Riga Technical University (RTU)	Riga, Latvia
	▪ PhD Candidate in Computer Science (4 th year; area: knowledge management), ongoing.		
	1998 - 2004	Central Michigan University (CMU)	Mt. Pleasant, MI, USA
	▪ Business Computing Graduate Certificate , May 2004.		
	▪ Master of Science in Computer Science , August 2001.		
	1994 - 1998	University of Latvia	Riga, Latvia
	▪ Bachelor of Arts in Computer Science , June 1998.		
Skills	▪ Operating Systems : MS Windows, Unix, MS-DOS, MVS. ▪ Programming Languages : ABAP/4, Java, Visual Basic, C, C++, Pascal, NATURAL. ▪ Databases : MS Access, MS SQL Server, Oracle, FoxPro, ADABAS. ▪ Enterprise Software : SAP R/3. ▪ ERP courses : BC620, BC420, JA300, JA310, EP120, SMI310 ▪ Other: ASP, VBA, HTML, DHTML, CSS, XML, Macromedia Director, Dreamweaver and Fireworks, MS Office, Office System CON-NECT, Adobe Photoshop.		
Experience	2009 - now	Lattelecom Technology SIA	Riga, Latvia
	SAP Consultant ▪ NetWeaver portal configuration and programming for MoF and for Lattelecom SIA. ▪ ABAP un BEx VBA programming for Lattelecom SIA.		
	2004 - now	Vidzeme University of Applied Sciences, Faculty of Engineering	Valmiera, Latvia
	Lecturer ▪ Course: "Accounting / resource planning systems". ▪ Course: "Knowledge management systems". ▪ Course: "Introduction to knowledge management". ▪ Course: "Software development tools and environments". ▪ Course: "Knowledge economy and management".		
	2004 - 2009	Siemens SIA / SIS	Riga, Latvia
	SAP Consultant ▪ NetWeaver portal configuration and programming for MoF. ▪ Data migration in projects for Kesko Food and RIMI Baltic. ▪ ABAP programming in project for RIMI Baltic.		
	2000 - 2004	Office of Information Technology / CMU	Mt. Pleasant, MI, USA
	Web Developer/Programmer ▪ Developing several web applications and web sites for CMU. ▪ Managing most of all incoming web projects' maintenance and development. ▪ Managing student programmers.		
	1999 - 1999	RITI (Riga Information Technology Institute)	Riga, Latvia
	Software Testing Engineer ▪ Consulted testing and tested commissions' management system for Lattelekom for Y2K. ▪ Tested Latvian legislation database application NAIS for Y2K.		
	1996 - 1998	DATI	Riga, Latvia
	Software Engineer (Project for Software AG – Office System Con-Nect maintenance.) ▪ Created: - Debugger's, several User Profile's enhancements. - Con-Nect Cabinet handling features' enhancements. ▪ Explored Con-Nect system's parts for Y2K problem.		

1995 - 1996

RITI

Riga, Latvia

Junior Software Engineer

(Project for Siemens Business Systems – MOSAIK development.)

- User Interface and MOSAIK Help Systems development.

Publications

- Osis, K., Grundspenkis, J. „Agent based personal knowledge management system supported by mobile technology cross-platform solution”, in (Hou, H., T. ed.), Knowledge Management, InTech, 2011 (chapter proposal accepted).
- Osis, K., Grundspenkis, J. A different view to knowledge and personal knowledge management system. 12th European Conference on Knowledge Management (ECKM 2011), University of Passau, Germany, 2011 (accepted for publication).
- Osis, K., Grundspenkis, J. Modular personal knowledge management system and mobile technology cross-platform solution towards learning environment support. Annual International Conference on "Virtual and Augmented Reality in Education" (VARE 2011), Vidzeme University of Applied Sciences, Valmiera, Latvia, 2011, pp. 114-124.
- Osis, K., Grundspenkis, J. Agent and Mobile Technologies and Their Usage in Development of Learning Environment Supportive System. In 3rd WSEAS International Conference on Visualization, Imaging and Simulation (VIS'10). University of Algarve, Faro, Portugal, 2010, pp. 58-63.
- Cakula, S., Osis, K. Knowledge Management in Course Content Development and Teaching. In EduLEARN'10 International Conference on Education and New Learning Technologies. Barcelona, Spain, 2010, pp. 87-96.
- Osis, K., Grundspenkis, J. Advancements in Smartphone Technology and Applications in Personal Knowledge Management. In INTED2010 International Technology, Education and Development Conference. Valencia, Spain, 2010, pp. 4840-4851.
- Osis, K., Grundspenkis, J. Perspectives of Integration of M-learning and Personal Knowledge Management. In iCERI'09 International Conference of Education, Research and Innovation. Madrid, Spain, 2009, pp. 6723-6733.
- Osis, K., Cakula, S., Ose, B. Quality adult learning in perspective of advancing modern technologies and personal knowledge management. In ESREA-ReNAdET'09, Inaugural Conference Meeting of the ESREA Network on Adult Educators & Trainers. Thessaloniki, Greece, 2009, pp. 859-868.
- Osis, K., Grundspenkis, J. Perspectives on usage of agents in personal knowledge management. In KMIS'09 International Conference on Knowledge Management. Madeira, Portugal, 2009, pp. 332-337.

Languages

Fluency in : Latvian, English, and Russian.
Knowledge of : German.

Honors

- Department of Computer Science Annual Recognition Award, CMU 2000.
- Research assistant for NSF(National Science Foundation) sponsored project, CMU 2000.
- Board Member in "Epsilon Delta Pi" - CMU Student chapter of ACM, CMU 1999-2000.
- Teaching Assistant for C++ programming class, CMU 1999.
- Certificate of Excellence for "Data Mining for Knowledge Acquisition in an Intelligent System" presented at Student Research & Creative Endeavors Exhibition, CMU 1999.
- Member of International club, CMU since 1998-2000.
- "Zvejnieka Fonds" scholarship, University of Latvia 1998.
- "The New Academy" scholarship-loan, Riga (Latvia) 1998.
- Member of "The World's Computer Society" (IEEE), since 1997.
- Scholarship for the excellent study achievements, University of Latvia 1997.
- Laureate in a Baltic countries Scientific Society's 10th conference, Tallinn (Estonia) 1994.

Interests

Folk dancing, Snowboarding, Fishing, Traveling and Chess.

References

Available upon request.

Larisa Survilo

CURRICULUM VITAE

General Information

First Name	Larisa
Last Name	Survilo

Education

School/University	Degrees/Diplomas
Riga Technical University, Faculty of Computer Science and Information Technology 2000 – 2005	Received a certificate for completed theoretical part of doctoral studies.
Riga Technical University, Faculty of Computer Science and Information Technology 1997 – 2000	Master degree of Engineering Science
Riga Technical University, Faculty of Computer Science and Information Technology 1994 – 1997	Bachelor degree of Engineering Science

Work Experience

7 years

Date	Company	Position	Details
2007 Jan. - now	RTU	Researcher	Research on PhD, taking part in conferences. Participation in different projects and also in teaching process.
2004 Sept. - 2005 Sept.	Joint-stock company Dati Exigen Group	Project Manager	Project set-up, preparing of technical environment, recruitment and training of employees. Project managing. Preparing, evaluation, control and planning of tasks. Quality control. Main achievements: Unassisted beginning of new project, task control and partial automatization of routine operations, succesfull organisation of collaboration with a customer (in Germany). Succesfull training of new project manager (the project is going on now).
2003 June - 2004 Sept.	Joint-stock company DATI	System Analyst	Participation in diffrenet projects, system analyse, preparing and evaluation of proposals etc.
2000 June - 2003 June	Joint-stock company DATI	Project Manager	Project management, recruitment and training of employees. Coordination of project, preparing of tasks, evaluation, distribution, planning and control. Keeping of succesfull collaboration with a customer (in Germany). Main achievements: In the year 2002 was received a prize “The best Project Manager of the year in Joint-stock company DATI”. Total automatization of routine operations and succesfull completion of a project within a date defined by a customer.
1998 June - 2000 June	Joint-stock company DATI	System Analyst	Studying and localization of BAAN ERP system. Getting to know with workings, tasks, structure and requirements of ERP systems. Taking part in impelementation of a system and training of users. Business process analyse and implementation. Preparing of user manual.
2004 Jan. - 2006 Sept.	RTU	Assistant	Research on PhD, taking part in conferences. Participation in different projects and also in teaching process. Organisation of CAiSE'04 conference.

Programming/Computer Skills

Professionaol tools, environments, standarts: COBOL II, Delphi 4/5/6, JCL, UML, MS Project, OS/390

Additional Education/Courses

Company/Certificate	Subject
Zertifikat Deutsch Year 2004 January	Studies of German language.
Basics of mainframe programming OS/390: Introduction to CICS Year 2003 June/July	Studying of basics of mainframe programming (OS/390, TSO, ISPF, JCL, VSAM, COBOL II usages). Introduction to transaction control system CICS (BMS, CECI, EIB u.c.).
BAAN IV ERP Basics and methods of implementation Year 1999 March	Common view on modules of BAAN ERP (Finance, Supply/Distribution, Production, Projects, Transport etc.).
Studies at University of Ghent, in Belgium, within an exchange program of "Tempus" Year 1998 February - May	Development of Master Thesis.
I have taken part in different other courses like (have received certificates): Introduction to RUP(Rational Unified Process) - Year 2002 May; JAVA Programming Basics – Year 2001 January; WEB Programming Basics - Year 2001 February; Bussiness Accounting - Year 1999 April - June.	

Language Skills (0-5)

Language	Estimation
Latvian	5
Russian	4
English	4
German	3

Scientific interesēts

Structure modelling within circumstances of incomplete information, complexity of systems and analysis and research of possible measures of complexity.

Self Characteristic

I am a responsible, active and communicative person with a high sense of duty. I like to take part in different activities and also taking the lead of them. I am positive-minded and I can easily enter into a teamwork.

Other skills

Driver licence (B category)

Hobbies

My hobbies are different kind of literature, languages, singing.

Leonids Novickis

Short CV

Born in 1950 in Riga

Positions held at the Riga Technical University (former RPI)

1973 - 1976: assistant

1976 - 1977: lecturer

1977 - 1980: researcher

1981 - 1984: lecturer, Dr.Sc.

1984 - 1992: ass.professor (docent)

1992 -1998: professor

Since 1998: state professor of the Republic of Latvia, head of the department of Applied Systems Software

Since 1998: chairman of the board of the SME IDC Information Technologies Ltd.

Scientific Degrees:

1980 - PhD(TH Nr.044452) – from the former USSR

1984 - ass.professor / docent (DC Nr. 092291) -from the former USSR

1990 - Dr.Sc.ing. (DE Nr. 006370) from the former USSR

1992 - Dr.Habil. Sc.ing. (A-Dh Nr. 000157) from Latvian Academy of Science

2006 - Corresponding Member of Latvian Academy of Science

Teaching process (from 1990);

Intelligent Transportation Systems,
System programming,
Databases, knowledge bases and expert systems,
Intelligent applied software systems,
Financial and Banking Information Systems,
Specialised Data Processing Technologies,
Adaptive Data Processing Systems,
Development of Intelligent Applied Systems
Intelligent Tutoring Systems

Main publications from 1999

E.Ginters, L.Novitsky, E.Viktorova. Data Processing Systems Design for Marine Insurance. In: Proceedings of the intern. WS on Harbour, Maritime & Logistics Modelling and Simulation. - Genoa, September 16-18, 1999. - 4 p.

L.Novitsky. Experience of collaboration with industrial partners within the frameworks of DAMAC-HP International Project. In: Simulation Applications in the Baltic Area, Riga, 1999. - 6 p.

L.Novitsky, E.Viktorova. Integrated Information System for Managing and Controlling Insurance Business. In: Proceedings of the Intern. Conf. RAREEVENTS'99, Yurmala, June 28-30, 1999. - 5 p.

L.Novitsky, V.Ragozin, E.Viktorova. Information Systems Design for Marine Insurance. - In: Monografija "Simulation and Information Systems Design. Applications in Latvian Ports". Edited by E.Blumel, L.Novitsky. Riga, 2000. - 11 p..

L.Novitsky, V.Ragozin, E.Viktorova. Information System Design based on the Modelling of insurance Business Processes / Proceedings of the 14th European Simulation Multiconference, Ghent, May 23-26, 2000. - 3 P.

E.Ginters, L.Novitsky, E.Viktorova. Information System for Managing the Insurance Business Processes / Proceedings of the 4th Joint Conference on Knowledge - Based Software Engineering, Brno, September 12-14, 2000. - 4 P.

E.Ginters, L.Novitsky, J.Pronin. Structuring the Business Information at the Port Areas / Proceedings of the 2 nd Intern. Conf. "Simulation, Gaming, Training and Business Process Reengineering in Operations", Riga, September 8-9, 2000. - 4 P.

E.Blumel, Y.Merkuryev, L.Novitsky, J.Tolujev. Industrial Application of Harbour Processes Managing and Controlling Models and Methods in Latvian Ports / Proceedings of the Nordic-Baltic Transport Research Conference. Vol. 1, Riga, 2000. - 4 p.

E.Kindler, L.Novickis, V.Grecov. Object-oriented Simulation of Container Yards and their environment in Latvian Ports. - In: Proceeding of the Nordic-Baltic Transport Research Conference. Vol. 1, Riga, 2000. - 5 p.

L.Novitsky, V.Ragozin, E.Viktorova. Integrated Information System Development for Marine Insurance. - In: Proceedigs of the 2nd Intern. Conf. "Simulation, Gaming, Training and Business Process Reengineering in Operations", Riga, September 8-9, 2000. - 3 P.

Novickis L., Ragozins V., Viktorova J. Integrētā apdrošināšanas informācijas sistēma // RTU Zin. raksti - Datorzinātne. Sējums 3. Lietišķās datorsistēmas, 2000, 6 lpp.

E.Ginters, A.Bruzzzone, Y.Merkuryev, L.Novitsky. LOGIS - Long - Distance Tutorial Network in "Logistics Information Systems" based on Web Technologies. - In: Proceedings of the International Workshop HMS`2001, Marseille, France, October 15-17, 2001. - 3 p.

L.Novitsky, E.Ginters, Y.Merkuryev. Model - Based Training Methodology in Logistics Information Systems. - In: Proceedings of the 13th European Simulation Symposium ESS`2001, Marseille, October 18-20, 2001. - 4 P.

L.Novickis, M.Uhanova, I.Jackiva. Apdrošināšanas kompāniju darbības rādītāju analīze un modelēšana // RTU Zin. raksti. Lietišķās datorsistēmas.8. Sējums, 2001, 8 lpp.

L.Novitski, E.Blumel, E.Viktorova et.al. The BALTPORTS-IT Project: Applications of Simulation and IT-Solutions. - In: Proceedings of the IASTED International Conference "Applied Simulation and Modelling" Greece, 2002. - 6 p.

L.Novitsky, Y.Merkuryev et.al. The BALTPORTS-IT project: Applications of Simulation and IT-Solutions in the Baltic port areas. - In: Scientific Proceedings of Riga Technical University. Computer Science. Vol. 10, RTU, 2002. - 8 p.

E. Blumel, L.Novitsky, Y.Merkuryev et.al. Applications of Simulation Models and Information Systems in Maritime Sector of the Baltic States. - In: Proceedings of International Workshop on Harbour, Maritime and Multimodal Logistics Modelling and Simulation HMS`2002 Italy, Genoa. - 6 p.

E.Ginters, Y.Merkuryev, L.Novitsky et.el. Layout Visualization of Technological Contours of Harbour Management Systems. - In: Belgian Journal of Operations Research, Statistics and Computer Science (JORBEL). Vol. 40(3-4) 00, 2002. - 9 p.

Agostino Bruzzzone, Alexander Verbraeck, Andris Gutmanis, Birger Rapp, Egils Cintars, Egita Rozentale, Gaby Newmann, Imants Sarmulis, Janis Vucans, Leonid Novitsky, Peteris Zalite, Salvatore Capasso, Yuri Merkuryev. Logistics Information Systems. Edited by Egils Ginters. Riga, 2002. Part 1, 380 p. ISBN 9984-30-021-8.

Agostino Bruzzzone, Alexander Verbraeck, Andris Gutmanis, Birger Rapp, Egils Cintars, Egita Rozentale, Gaby Newmann, Imants Sarmulis, Janis Vucans, Leonid Novitsky, Peteris Zalite,

Salvatore Capasso, Yuri Merkuryev. Logistics Information Systems. Edited by Egils Ginters. Riga, 2002. Part 2, 302 p. ISBN 9984-30-021-8.

L.Novitsky, Y.Semyonov, M.Ablazevicha, V.Gribkova. LOGIS Training Methodology based on Web Technologies. In: TransBaltica 2002. Conference Materials. Riga Managers School, 2002. ISBN 9984-9554-4-3

E.Bluelmel, L.Novitski, Y.Merkuryev, E.Ginters and H.Praniavicius. Applications of IT-Solutions and Simulation in the Baltic Port Areas of the Newly Associated States. In: Proceedings of e - 2002 Conference, Prague, October 2002. - 5 p.

E.Bluelmel, L.Novitski, Y.Merkurjev and E.Ginters. Simulation and IT-Solutions: Applications in the Baltic Port Areas. In: Proceedings of TELEBALT Workshop, Riga, April 2002. - 2 p.

Applications of Simulation and IT solutions in the Baltic Port Areas of the Associated Candidate Countries. Edited by E.Bluelmel, J.Babot, L.Novickis, V.Bardachenko, J.Grundspenkis, E.Ginters, Y.Merkuryev, G.Merkuryeva, F.Kamperman etc. Juni I, 2003. - 317 P.

E.Ginters, A.Gutmanis, Y.Merkuryev, L.Novicky, S.Cakula. LOGIS-II - Competence Framework of Reference in Logistics Information Systems for Knowledge Dissemination. - In: Lifelong Learning - A challenge for all. Proceedings of the International Conference. Riga, 8-9 November, 2002. - 4 P.

E.Ginters, A.Gutmanis, Y.Merkuryev, L.Novicky, S.Cakula. LOGIS-II - Competence Framework of Reference in Logistics Information Systems for Knowledge Dissemination. - In: Lifelong Learning - A challenge for all. Proceedings of the International Conference. Kaunas, May, 2003.

E.Bluelmel, L.Novitsky. Introduction to BALTPORTS-IT: Applications of Simulation and IT-Solutions in the Baltic Port Areas. In: Proceedings of the International Workshop on Harbour, Maritime and Multimodal Logistics Modelling & Simulation (HMS`2003). Riga, September 18-20, 2003. - 5 P.

L.Novitsky, M.Uhanova, E.Viktorova, V.Ragozin. Modelling of Marine Insurance Business Processes. - In: Proceedings of the International Workshop on Harbour, Maritime and Multimodal Logistics Modelling & Simulation (HMS`2003). Riga, September 18-20, 2003. - 6 P.

E.Bluelmel, L.Novitsky. IT - Solutions in the Baltic Port Areas. In: Proceedings of the International Conference "COMPIT`2004". Spain, 2004. - 9 P.

I.Lauberte, E.Ginters, L.Novickis. Agent - Based Simulation Use in Applicant's Character Recognition - In: Proceedings of the WSEAS International Conferences, Corfu Island, Greece, 2008. - 7p.

IT&T Solutions in Logistics and Maritime Applications. Edited by E.Bluelmel, S.Strassburger and L.Novickis, ISBN 9984-30-119-2, JUMI, 2006. - 166p.

L.Novickis, M.Uhanova. Application of Modelling and Internet Technologies in Marine Insurance Business Processes. In: Proceedings of 4th International Conference on Computer and IT Applications in the Maritime Industry COMPIT`2005, Hamburg, 2005. - 11 p.

T.Rikure, L.Novickis. Building a Learner Psychophysiological Model Based Adaptive e-Learning Systems: A` General Framework and its Implementation. In: Lecture Notes in Computer Science, 5968 Springer, Advances in Databases and Information Systems ADBIS 2009, ISBN 978-3-642-12081-7, 2010. - 8 p.

T.Rikure, L.Novickis. Psychophysiological Signal Processing for Building a User Model in Adaptive e-Learning Systems. In: proceedings of the 4th WSEAS International Conference on Bioengineering, December 15-17, Spain, 2008, ISBN 978-960-474-036-9. - 5 p.

Total number of publications : 160.

Participating in the research projects:

1996 - 2000: The project "Intelligent Tutoring Systems Development based on the modeling and animation" funded by the Latvian Council of Sciences. Project leader
1998 - 2000: The project under 4th EC Programme. Title: Further Development and Practical Application of Harbour Processes models, methods and tools (DAMAC-HP). Scientific co-ordinator
1998 - 2010: The project "IT-solutions for Insurance Business" within the frameworks of collaboration with insurance company BALVA and company Diasoft. Project's leader.
2001 - 2003: EC IST 5th FP "Applications of Simulation and IT-Solutions in the Baltic Port Areas of the Newly Associated States" (BALTPORTS-IT); Project's scientific co-ordinator
2004-2006 : EC Leonardo da Vinci Programme project SocSimNet "Competence Network for Introduction of Modern ICT in Social Systems Simulation"
2004 - 2007: EC IST 6th FP project IST4Balt "Promotion of IST in Baltic States", WP leader
2004 - 2006: EC IST 6th FP project eLOGMAR-M "Web-Based and Mobile Solutions for Collaborative Work Environment with Logistics and Maritime Applications". Scientific co-ordinator
2004 - 2008: EC IST 6th FP project UNITE "Unified Teaching Environment for the School". WP leader
2009 – 2012: EC Baltic Sea Region Interreg Programme project BONITA "Baltic Organisation and Network of Innovation Transfer Associations". WP leader
2004-2006 : EC Leonardo da Vinci Programme Project LOGIS-Mobile "Competence Framework for Mobile on-site Accelerated Vocational Training in Logistics Information Systems"
2001-2004 : Project of Latvian Council of Science "Development of Intelligent Financial and Insurance Software Based on Web Technologies". Project leader
2005 – 2008: Project of Latvian Council of Science "Integrated Applied Software Based on Web Technologies". Project leader
From 2009 : Project of Latvian Council of Science "Distributed Artificial Intelligence and Web Technologies Based Methods and Models for the Development of Intelligent Applied Software and Computer Systems Architecture". WP leader.
2010-2012: Project of the European Structural Fund "Highway Simulation" : participant

Other activities:

A) Conference organization:

1990 - International Workshop (WS) "Computer-Based Learning", Jurmala. The member of organising committee
1996 - International Conference "Operation Research in Business Process Reengineering", Riga. The member of organising committee
1998 - International WS "Modelling and Simulation within Maritime Environment" Riga. The co-chair of the Programme Committee
1998 - International WS "information and Communication Technologies for Insurance", Riga. WS chairman
1999 - International WS HMS'99 ("Harbour Modelling and Simulation"), Genoa. The member of the Programme Committee.
2000 - 2nd International Conference "Simulation, Gaming, Training and Business Process Reengineering in Operations", Riga. The member of the Programme Committee.
1992 - 1994 The chairman of the Scientific Council awarding Dr. Sc. ing. Degrees in the field of information systems.
2003 - The International Workshop on Harbour, Maritime and Logistics Modelling and Simulation HMS'2003, Riga. Programme Chair.
2009 – East European Conference ADBIS 2009 "Advances in Databases and Information Systems", Riga, September 2009. Co-chair of five workshops.
2005-2008: International IST4BALT Workshops within the frames of Baltic IT&T International

Conferences. Workshops chair

2006: International Workshop in e-Logistics – Shenzhen, P.R.of China and Riga, Latvia, 2006.

Workshops co-chair.

2009: International Conference “Asia Modelling Symposium ASM 2009”, Bandung,2009. PC member.

B) Expert of the European Commission and Latvian Academy of Science:

From 2006 - evaluator, rapporteur of DG Research / Unit SMEs and DG IST (European Commission)

From 2010 – elected expert in Computer Science and IT of Latvian Academy of Science

C) The member of Liophant Simulation Club (Italy), Association of Advanced Computing in Education (AACE, U.S.A.), Latvian Imitation Modelling Society, Latvian branch office of IFAC (LANO) and Academy of IPR and Innovations (Latvia) ,ACM Association.

Since 1992 – the member of scientific council awarding doctoral degrees in System Analysis , Modelling and IT Solutions.

D) Special award:

Outstanding Innovation Award – eLOGMAR-M project. – China (Shenzhen) *International* Logistics Fair/Conference, November, 2008.

Curriculum vitae

Businska Ligita

Education:	2008. – present	Riga Technical University, Faculty of Computer Science and Information Technology, Doctoral studies. Title of the Doctoral thesis: „Problem domain oriented multidimensional business process modeling”
	1998. – 2002.	Riga Technical University, Faculty of Computer Science and Information Technology, Master studies. M.sc.ing. in computer systems. Title of the Master thesis: „The development of the approach for comparison of construction methods”. Title of the Engineer's project: „The information system for GIS development project”.
	1994. –1997.	Riga Technical University, Faculty of Computer Science and Information Technology, Bachelor studies. B.sc.ing. in computer control and computer science. Title of the Bachelor work: „Struktūrmodelēšanas un sistēmu struktūras analīzes diagrammu pētījumi”.
	1993. – 1995.	53rd Secondary school of Riga (Latvia).
	1984. – 1993.	3rd Secondary school of Siauliai (Lithuania).
Additional education:	22.11-03.12.2010.	Completed a 70 academic hour course „ SAP TERP10 – Business process integration” at Sankt-Petersburg, Russia
	23.10.2002.	Completed a 8 academic hour course “Time management”, Government administration school, Latvia
	18.-28.03.2002	Completed a 87 academic hour course “Cartography”, Vilnius, Lithuania
	2002.	The MDL programming language courses.
	03-07.2001.	Completed a 100 academic hour English course at Pre-intermediate level, Satva Ltd., Riga, Latvia
Work experience:	2007.10.09. – present	Riga Technical university, Faculty of Computer Science and Information Technology, Institute of Applied Computer Systems, department of Systems Theory and Design (Riga, Latvia), <u>assistant</u>

2004.10.05. – 2007.08.18.	State Land Service, Information technology development unit, <u>senior system analyst</u> and <u>quality manager</u>
2001.10.05. – 2004.10.05.	State Land Service, Information technology development unit, <u>system analyst</u>

Languages:

Russian - native
Latvian - fluent
English - reading- intermediate level, speaking- intermediate level
Lithuanian - intermediate level

Projects:

** The projects realized at Riga Technical University*

01.03.2011- 15.12.2011	The Baltic-German University Liaison Office project „Knowledge reuse and sharing in fractal and networked enterprises”, project leader - M. Kirikova
12.04.2010.- 31.12.2010.	Adaptation of Activity Based Costing for IT based business process management in SMEs and microenterprises, project leader - M. Kirikova
01.01.2009.- 31.12.2009	The development and management methods, models and tools for agile information systems, project leader - M. Kirikova
01.03.08.- 31.12.08	Development of the information architecture model for multifractal systems, project leader - M. Kirikova
01.01.08.- 31.12.08	Development of the multi-dimensional business process model and the method of its application, project leader - M. Kirikova
01.10.2007- 15.09.2008	Development of the prototype for the support of inter-institutional flow of knowledge, project leader - M. Kirikova
01.02.2007- 28.12.2007	The development of a conceptual model of the knowledge management system module for future oriented research, project leader - M. Kirikova

** The projects realized at State Land Service*

2005.01. – 2005.12.	The development of conception of State land service publication and distribution information system
2005.01. – 2005.12.	The development of conception of State land service information system
2005.01. – 2005.12.	The development of State and administrative border map temporary information system
2005.01. – 2005.12.	The integration of State address register with data base of place names
2003.01. – 2005.12.	The development and implementation of quality management system

- 2004.11. – The development of zone detection unit in Real Estate State
- 2005.12. Cadastre information system
- 2002.01. – The development and update of Real Estate's State Cadastre
- 2005.12. Register System's graphical data software
- 2002.01. – The development of system analyst standards
- 2002.12.
- 2001.10. – The development of State Land Service unified
- 2002.12. geographical information system

Publications:

1. Businska, L., Supulniece, I. Towards systematic reflection of data, information, and knowledge // Proceedings of the 10th International Conference on Perspectives in Business Informatics Research (BIR 2011), Riga, Latvia, October 6-8, 2011 (pieņemts publicēšanai, kopā 7 lpp.)
2. Businska, L., Supulniece, I., Kirikova, M. On data, information, and knowledge representation in business process models // Proceedings of the 20th International Conference on Information Systems Development (ISD 2011), Edinburgh, Scotland, August 24-26, 2011 (pieņemts publicēšanai, kopā 14 lpp.)
3. Businska, L., Kirikova, M. Knowledge Dimension in Business Process Modeling // Proceedings of the 23rd International Conference on Advanced Information Systems Engineering (CAiSE'11), London, United Kingdom, June 20 – 24, 2011 (pieņemts publicēšanai, kopā 9 lpp.)
4. Finke, A., Businska B. Technology for light-weight ABC in SME // The 17th International Conference on Information and Software Technologies, Lithuania, Kaunas, 27-29 April, 2011 (iesniegts)
5. Kirikova M., Businska L., Finke A. Towards agile ABC // The 9th International Conference on Perspectives in Business Informatics Research, Germany, Rostoka, 29 September – 1 October, 2010, pp. 9-15
6. Šupulniece I., Bušinska L., Kirikova M. Towards Extending BPMN with the Knowledge Dimension // Enterprise, Business-Process and Information Systems Modeling : 22nd International Conference on Advanced Information Systems Engineering, CAiSE'10 : Proceedings, Tunisa, Hammamet, 7.-8. jūnijs, 2010. - 69-81. lpp.
7. Kirikova M., Businska L., Finke A. Enterprise Models as Data. In: 2nd Working Conference on The Practice of Enterprise Modeling, Stockholm, Sweden, November 18-19, 2009 (to be published by Springer)
8. Businska L. Multidimensional business process modeling approach. In: 13th East-European Conference on Advances in Databases and Information Systems, Riga, Latvia, September 7-10, 2009 (to be published by Springer)
9. Businska, L., Kirikova, M. Multidimensional modeling and analysis of business processes. In: 13th East-European Conference on Advances in Databases and Information Systems, Riga, Latvia, September 7-10, 2009 (in press)

10. Kirikova M., Businska L., Penicina L. Multidimensional business process modeling. In: Proceedings of BIR 2008, the 7th International Conference on Perspectives in Business Informatics Research, St. Wrycza (Ed.), Gdansk, Poland, September 25-26, University of Gdansk, 2008, pp. 196-210, ISBN 978-83-7326-558-5.
11. Businska L., Stecjuka J., Kirikova M. On the structure mirroring approach: Foresight module in the knowledge management systems for SMEs. In: Scientific Proceedings of Riga Technical University, Computer Science, S. 5, Vol. 34, RTU, Riga, 2008, pp. 113-125, ISSN 1407-7493.

Participation in conferences:

1. The 20th International Conference on Information Systems Development (ISD 2011), Edinburgh, Scotland, August 24-26, 2011
2. The 13th East-European Conference on Advances in Databases and Information Systems (Main conference), Riga, Latvia, September 7-10, 2009
3. The 13th East-European Conference on Advances in Databases and Information Systems (Doctoral consortium), Riga, Latvia, September 7-10, 2009
4. The 48th RTU International Scientific Conference, Riga, Latvia, October 11-14, 2007
5. The 4th REGNO Conference, Tallinn, Estonia, October 29 - 02 2004
6. The International Digital Geographical Data Conference, Budapest, Hungary, April 15-18, 2004

Membership in Latvian and international organizations

Since 24.01.2010 a member of scientific professional association (INSTICC)

Pedagogical activity:

Lecturing and conducting a practical trainings in subjects „Requirements engineering”, „Methodologies of information systems”, and “Software Applications in Education ” at Riga Technical University, Department of System Theory and Design, Institute of Applied Computer Systems



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Ludmila Penicina**

**Desired employment /
Occupational field** **Computer systems analyst**

Work experience

Dates	11/06/2007 - 01/05/2008
Occupation or position held	Testing specialist
Main activities and responsibilities	Information system testing, creation of test cases according to System Requirement Specification, creation of test data, communication with Information System project stakeholders, preparation of acceptance testing deliverables and preparation of reports about information system testing activities.
Name and address of employer	SIA Lattelecom Technology (part of the Lattelecom group) Dzirnavu street 16, LV-1010 Rīga (Latvia)
Type of business or sector	Information technology and services
Dates	01/05/2008 →
Occupation or position held	Computer systems analyst
Main activities and responsibilities	System analysis planning, analysis of existing business processes, elicitation and analysis of information system requirements, communication with project stakeholders, creation and management of software requirements specification and other project documents, information system change management, project coordination and preparation of reports, testing of implemented software features.
Name and address of employer	Riga Technical University IT Department 1 Kalku Street, LV-1658 Riga (Latvia)
Type of business or sector	Information technology and services in the Education
Dates	02/06/2008 →
Occupation or position held	Research Assistant
Main activities and responsibilities	Research on business process management, publication and presentation of the research results in the international conferences, academic work - lecturing on business process management subject, administration tasks
Name and address of employer	Riga Technical University Faculty of Computer Science and Information Technology Department of System Theory and Design Meza street 1/4-547, LV-1048 Riga (Latvia)
Type of business or sector	Education

Education and training

Dates	01/09/2005 - 25/06/2008
Title of qualification awarded	Bc. sc. ing., Computer Science
Principal subjects / occupational skills covered	Completed courses on System Analysis and Modelling, Object-Oriented Programming basics, The Basics of Artificial Intelligence, Information System Development, Computer Hardware. The title of Bachelor Thesis "The Representation of BPMN in UML 2.0 Diagrams".
Name and type of organisation	Riga Technical University (Technical University)

providing education and training	1 Kalku Street, LV-1658 Riga (Latvia)
Level in national or international classification	ISCED level 5A
Dates	01/09/2008 - 18/06/2010
Title of qualification awarded	Mg.sc.ing., Computer Science
Principal subjects / occupational skills covered	Completed courses on Knowledge Management, Requirements Engineering, System and Process Theory, Artificial Intelligence, Object-Oriented System Analysis. The title of Master Thesis "The Code Generation from Multidimensional BPMN Models".
Name and type of organisation providing education and training	Riga Technical University (Technical University) 1 Kalku Street, LV-1658 Riga (Latvia)
Level in national or international classification	ISCED level 5A
Dates	01/09/2008 - 02/02/2011
Title of qualification awarded	Master degree in Business Management
Principal subjects / occupational skills covered	Completed courses on Economics, Management Psychology, Information Technologies/Systems, Business Law, Finance and Accounting, Financial Management and Markets, Management, Marketing, Logistics, Project Management. The Title of Master's Thesis "The Analysis of E-learning Use in Corporate Environment and The Development of Methodology for Corporate E-learning adoption".
Name and type of organisation providing education and training	Riga International School of Economics and Business Administration (Business School) 3 Meza iela, LV - 1048 Riga (Latvia)
Dates	01/09/2011- 2015 (expected)
Title of qualification expected	Doctorate degree in Applied Computer Systems
Name and type of organisation providing education and training	Riga Technical University (Technical University) 1 Kalku Street, LV-1658 Riga (Latvia)
Dates	13/09/2010 - 19/09/2010
Title of qualification awarded	Completed course on Web Services
Principal subjects / occupational skills covered	Course on Web Services
Name and type of organisation providing education and training	Poznan University of Economics al. Niepodleglosci 10, Poznan
Dates	01/02/2011 – 05/04/2011
Title of qualification awarded	MOODLE Course Creator Certificate
Name and type of organisation providing education and training	HRDNZ - Moodle Partner in New Zealand

Personal skills and competences

Other language(s)

Self-assessment	Understanding				Speaking				Writing	
<i>European level (*)</i>	Listening		Reading		Spoken interaction		Spoken production			
Latvian	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
English	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
German	A1	Basic User	A1	Basic User	A1	Basic User	A1	Basic User	A1	Basic User

(*) [Common European Framework of Reference \(CEF\) level](#)

Social skills and competences Ability to adapt to diverse and multicultural environments, good team spirit, good communication skills

gained through my experience as system analyst, ability to perform public presentation gained through lecturing work experience.

Organisational skills and competences	Great sense of responsibility and organization, experience in research publication development, experience in project coordination, experience in presenting research results in scientific conference. Good command
Technical skills and competences	Good command of business process modeling gained through work experience as system analyst and lecturing about business process management. Good command of technical writing gained through work experience as system analyst. Good command of creating software test cases gained through work as test specialist.
Computer skills and competences	Great command of MS Office, good knowledge of business management environments (Intalio, Tibco), good knowledge of Moodle e-learning platform, basic knowledge of Integrated Development Environment systems, basic knowledge of programming, basic knowledge of .NET Development platform.
Driving licence(s)	B

Publications

Publication reference	Strazdiņa R., Kirikova M., Peņicina L., Rudzājs P. Knowledge Requirements Monitoring System: Advantages for Industry and University // Proceedings of the Second International Conference on Information, Process, and Knowledge Management eKNOW 2010, Netherlands, Saint Maarten, 10.-16. February, 2010. - pp 120-125.
Publication reference	Kirikova M., Bušinska L., Peņicina L. Multidimensional Business Process Modeling // -, Poland, Gdansk, 5.-6. September, 2008. - pp 196-210.
Publication reference	Peņicina L. The Approach of Transformation between Business Process Dimensions in BPMN Modeling Tool // Information Technologies' 2009, Lithuania, Kaunas, 23.-24. April, 2009. - pp 72-81.
Publication reference	Peņicina L. The Mapping of Multidimensional BPMN Models to BPEL // Cases and Projects in Business Informatics - International Business Informatics Challenge 2009, Ireland, Dublin, 25.-25. September, 2009
Publication reference	Rudzājs P., Peņicina L., Kirikova M., Strazdiņa R. Towards Narrowing a Conceptual Gap between IT Industry and University // Scientific Journal of RTU. 5. series., Datorzinātne. - 43. vol. (2010), pp 9-15.
Publication reference	Peņicina L. Towards the Mapping of Multidimensional BPMN Models to Process Definition Standards // Scientific Journal of RTU. 5. series., Datorzinātne. - 43. vol. (2010), pp 76-83.

Projects

Project ID	09.1582
Project type	LZP Grants
Project name	Uz izklaidēta mākslīgā intelekta un tīmekļa tehnoloģijām balstīta intelektuālas lietišķās programmatūras izstrāde
Year	2010
Project ID	K09-0122
Project type	RBS projekts
Project name	Informācijas sistēmu novērtēšana un uzlabotas informācijas sistēmu plāna izstrādāšana Baltkrievijas Valsts universitātei.
Year	2011
Project ID	09.1245
Project type	LZP Grants
Project name	Spējo informācijas sistēmu izstrādes un vadības metodes, modeļi un rīki

Year	2009
Project ID	FLPP-2009/12 (06-8/94)
Project type	RTU-II zinātniskais projekts- sadarbības projekts ar Lattelecom
Project name	Informācijas sistēmas pilotarhitektūra zināšanu prasību monitoringam organizāciju tīklos
Year	01/01/2009.- 31/12/2009
Project ID	08. 2140
Project type	LZP Grants
Project name	Multidimensionāla biznesa procesu modeļa un tā izmantošanas metodes
Year	2008

Honors and awards

Award	International Business Informatics Challenge 2009 (IBIC'09) BEST PAPER AWARD for the contribution on "THE MAPPING OF MULTIDIMENSIONAL BPMN MODELS TO BPEL"
Issuer	IBIC 2009 - 4th International Business Informatics Challenge & Conference
Date	September 2009

Conferences

Conference	Information Technologies' 2009
Date	23/04/2008 -24/04/2008
Country, city	Lithuania, Vilnius
Paper	The Approach of Transformation between Business Process Dimensions in BPMN Modeling Tool
Conference	Cases and Projects in Business Informatics 2009
Date	25/09/2009
Country, city	Ireland, Dublin
Paper	The Mapping of Multidimensional BPMN Models to BPEL
Conference	Riga Technical University 50th Scientific Conference
Date	14/10/2009
Country, city	Latvia, Riga
Paper	Towards the Mapping of Multidimensional BPMN Models to Process Definition Standards
Conference	Digital Libraries & Open Access. Interoperability Strategies
Date	4 February 2011
Country, city	UK, London
Paper	-
Conference	CERN Workshop on Innovations in Scholarly Communication (OAI7)
Date	22-24 June 2011
Country, city	Switzerland, Geneva
Paper	-

Marite Kirikova

CURRICULUM VITAE

1. PERSONAL DATA	
Name, surname	Marite Kirikova
Academic degree	Dr.sc.ing.
Address	Department of Systems Theory and Design Riga Technical University 1 Kalku Street, Riga, LV-1658 Latvia
Education	Dr.sc.ing. (Information Systems), Riga Technical University (1989 - 1993) Dipl. B - D Nr. 000756 Engineer – systemtechnician (Management Information Systems), Riga Technical University (1977 - 1982) Dipl. Nr. 356851
Languages	Latvian - mother tongue English - fluent Russian - fluent
2. OCCUPATION	
Professor (since 2007)	Riga Technical University courses: <i>Information Systems, Industrial Information Systems, Requirements Engineering, Knowledge Management, System Analysis and Knowledge Acquisition, Information Systems Methodologies, Project Quality Management, Systems Analysis Tools, Advances in Information Systems Development, Advances in Knowledge Management, Business Process Modelling, Business Process Management and Engineering, Knowledge Management Systems, Enterprise Architecture and Requirements Engineering, Service Science, Management and Engineering.</i>
Assoc. Professor (2004 - 2007)	Riga Technical University courses: <i>Information Systems, Industrial Information Systems, Requirements Engineering, Knowledge Management, System Analysis and Knowledge Acquisition, Information Systems Methodologies, Project Quality Management, Systems Analysis Tools, Advances in Information Systems Development, Advances in Knowledge Management. Business Process Modelling.</i>
Docent (1995 - 2004)	Riga Technical University courses: <i>Requirements Engineering, Knowledge Management, System Analysis and Knowledge Acquisition, Information Systems Methodologies, Project Quality Management, Systems Analysis Tools.</i>
Docent (since 1997)	Latvian Maritime Academy course: <i>Information Technology</i>
Lecturer (1983 - 1995)	Riga Technical University courses (since 1994): <i>System Analysis and Knowledge Acquisition, Cognitive Modelling, Information Technology</i> (1983 - 1993): <i>System Theory, System Modelling, Information Technology, Problem Oriented Computing Systems, Languages in Artificial Intelligence Systems, Management Information Systems, System Analysis and Mathematical Modelling in Economic, Mathematical Methods in Management, Operation Research.</i>
System Analyst (1992 - 1993)	Ltd. "Lameda" project: <i>Development of Information System for the Department of Road Traffic Safety of Latvian Republic</i>
Engineer (1982 - 1986)	Riga Technical University project: <i>A Methodology of Analysis of Topological Features of Aeroplane Systems for Diagnostics</i>

Laboratory assistant (1980 - 1982)	Riga Technical University Faculty of Computer Science and Information Technology Institute of Applied Computer Systems Department of Systems Theory and Design
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3. AREAS OF SCIENTIFIC INTERESTS

- Engineering of educational process
- Knowledge management in information systems development and e-learning
- Nature of Knowledge
- Knowledge Acquisition and Management
- Knowledge Modelling
- Requirements Acquisition and Analysis / Requirements Engineering
- Enterprise modelling and business process analysis
- System Modelling Methodologies and Tools
- System Analysis in Early Stages of Design
- Information Systems Development

4. SCIENTIFIC RESEARCH (2001 – 2009)

Project leader or member of international research projects and programmes

2011	The Baltic-German University Liaison Office project „Knowledge reuse and sharing in fractal and networked enterprises” (RTU project Nr. S 1563; agreement Nr. 01000-10/2011/07)) in cooperation with The University of Rostock – project leader
2010 – 2011	OSMOZE programm’s project „SECC: services for curricula comparison” (agreement Nr.1263) in cooperation with Monepellier University II – member
2004 – 2008	6th ES Framework project „KALEIDOSCOPE: <i>Concepts and methods for exploring the future of learning with digital technologies</i> ” (agreement Nr. 507838) – member
2005	ReDis Info IST Requalification of Disabled Persons (Leonardo da Vinci project, agreement Nr. CZ04BF NT-168025) – scientific coordinator of the project’s beginning
2003 – 2004	Knowledge management in information systems development and distance learning – individual project of the program <i>Fulbright</i> , at the <i>Boise State University</i> , USA - member

Member or manager of Latvian Council of Science, Ministry of Education and Science etc. programs and projects

2010	„Adaptation of Activity Based Costing for IT based business process management in SMEs and microenterprises” (RTU-II scientific project Nr. FLPP-2010/6) in cooperation with Digital Mind – project leader
2010 – 2011	„Development of linkage technology prototype for business process and normative documents bond” (RTU research project Nr. ZP-2010/7; agreement nr. 7.49) in cooperation with Accenture – project leader
2009 - 2010	„Development of the method and the prototype for the normalization and linkage of computer-based competence descriptions” (RTU research project Nr. ZP-2009/15) in cooperation with Lattelecom – project leader
2009	„Methods, models and tools for developing and governance of agile information systems” (grant of Latvian Academy of Science Nr.09.1245) - project leader
2009	„Methods and Models Based on Distributed Artificial Intelligence and Web Technologies for Development of Intelligent Applied Software and Computer System Architecture” (grant of Latvian Academy of Science Nr.09.1269) – project member
2009	„A pilot-architecture of an information system for monitoring knowledge requirements in organisational networks” (RTU-II scientific project Nr.FLPP-2009/12) in cooperation with Lattelecom – project leader
2008	„Development of the multi-dimensional business process model and the method of its application” (grant of Latvian Academy of Science Nr. 08.

	2140) - project leader
2008	„Development of information architecture model for multifractal systems“ (project Nr. R 7390 funded by Ministry of Education and Science of Latvia and Riga Technical university) – project leader
2007 - 2008	„Development of the prototype for the support of inter-institutional flow of knowledge“ (RTU scientific project Nr. ZP 2007/06) – project leader
2004 – 2008	„Integration of intelligent agents and knowledge management techniques for intelligent support of study process“ (grant of Latvian Academy of Science Nr. 05.1644) – project member
2007	„The development of a conceptual model of the knowledge management system module for future oriented research“ (grant of Latvian Academy of Science Nr. 07.2057) – project leader
2007	„Development of methodologies for multi-fractal information systems design“ (project Nr. R 7199 funded by Ministry of Education and Science of Latvia and Riga Technical university) – project leader
2006 – 2008	European Regional Development Fund (ERDF) project „Data Bank of Latvia's Tree Species Genetic Resources“ (agreement Nr. VPD1/ERAF/CFLA/05/APK/2.5.1./000082/P) - project member
2006 – 2008	European Regional Development Fund (ERDF) 2.5.1.activity's project „Innovative software to produce engineering games designed to develop knowledge society solutions - SPRIDITIS“ (agreement Nr. VPD1/ERAF/CFLA/05/APK/2.5.1./000077/P) – leader of the 1st activity
2006 – 2008	European Regional Development Fund (ERDF) 2.5.1.activity's project „Research into m-studies products and services - PUMPURS“ (agreement Nr. VPD1/ERAF/CFLA/05/APK/2.5.1./000078/038) - project member
2006 – 2007	„Development of the Method for the First Level Scientific Research in the Area of Computer Science and Information Technology“ (RTU project Nr. ZP-2006/05) - project member
2006	„Knowledge Management conception for Latvian enterprises“ (project funded by Ministry of Education and Science of Latvia and Riga Technical university) - project member
2006	„Development of the Information System's Concept for Supporting Scientific Activities at Riga Technical University“ (project Nr. U 7121 funded by Ministry of Education and Science of Latvia and Riga Technical university) – project leader
2006	„Elektronisko pakalpojumu sistēmas arhitektūras izvēles metodikas“ izstrāde (research project Nr. R 7083 funded by Ministry of Education and Science of Latvia and Riga Technical university) - project member
2005 - 2006	„Professional orientation information base in information technology“ (European Social Fund project Nr. 2005/0093/VPD1/ESF/PIAA/04/APK/3.2.7.2/0111/0007) – project leader
2005 - 2006	„Application of Two-Hemisphere Approach for Development of Flexible Architecture for Software Engineering Body of Knowledge“ (RTU scientific project Nr. ZP 2005/02) - project member
2001 - 2004	„Modelling of Intelligent Agent Co-operative Work for Knowledge Management and Process Reengineering Purposes in Organizations“ (grant of Latvian Academy of Science Nr. 01.0845) – project member
<i>Member of the sectoral councils and associations</i>	
since 2010	<i>IIBA (International Institute of Business Analysis)</i> - member
since 2007	<i>AIS (Association for information Systems)</i> - member
2005 and since 2007	<i>IEEE (Institute of Electrical and Electronics Engineers)</i> - member
since 2005	<i>ACM (Association for Computing Machinery)</i> – member
5. PUBLICATIONS IN SECTOR OF THE INFORMATION TECHNOLOGY (2009 – 2011)	

More than 120 publications.

Publications 2009 – 2011

1. Makna J. and Kirikova M. Patterns-based IS change management in SMEs. In: the Proceedings of the 18th International Conference on Information Systems Development (ISD2009), Wei Wei Song, W., Xu, S., Wan, C., Zhong, Y., Wojtkowski, W., Wojtkowski, G., Linger, H. (Eds.), China, Nanchang, September 16-19, 2009, Springer, 2011, ISBN: 978-1-4419-7355-9, pp. 55-66.
2. Businska L., Kirikova M. Knowledge dimension in business process modeling. In: the Proceedings of the 23rd International Conference on Advanced Information Systems Engineering (CAiSE'11), LNCS 6741, London, United Kingdom, June 22-24, 2011, ISBN 978-3-642-21639-8
3. Rudzājs P., Kirikova M., Strazdiņa R., Sukovskis U. Learning outcomes in the mirror of qualification frameworks. In: the Proceedings of the 3rd International Conference: Institutional Strategic Quality Management (ISQM2011), Romania, Sibiu, July 14-16, 2011, pp. 1-8.
4. Rudzājs P., Kirikova M. Enhancing Knowledge Flow by Mediated Mapping between Conceptual Structures. In: 3rd International Conference on Information, Process, and Knowledge Management (eKNOW 2011), Gosier, Guadeloupe, France, February 23-28, 2011, ISBN 978-1-61208-003-1, pp. 36-41.
5. Rudzajs P., Kirikova M. Mediated Competency Comparison between Job Descriptions and University Courses. In: Scientific Journal of Riga Technical University, Computer Science, S. 5, Vol. 44, 2011, ISSN 1407-7493, pp. 1-8.
6. Rudzajs P., Kirikova M., Strazdina R., and Sukovskis U. Towards managing learning outcomes in the jungle of qualification standards. In: Proceeding of the EQANIE 2011 - Conference on Using Learning Outcomes in Informatics Education – Training and Exchange of Good Practice, Austria, Vienna, February 17-18, 2011, pp. 1-7.
<http://www.eqanie.eu/pages/events/conference-vienna-2011/proceedings.php>
7. Kirikova M. Domain Modeling Approaches in IS Engineering. In: Model-Driven Domain Analysis and Software Development: Architectures and Functions, Osis J., Asnina E. (Eds.), IGI Global, 2010, ISBN13: 978-1-61692-874-2, ISBN10: 1-61692-874-3, pp. 388-406.
8. Strazdina R., Kirikova M., Rudzajs P. Knowledge Integration Points in Contemporary Business Informatics. In: Proceeding of the 9th International Conference on Perspectives in Business Informatics Research (BIR 2010), LNBIP 64, Rostock, Germany, September 29–October 1, 2010, Springer, ISBN 978-3-642-16100-1, pp. 33-42.
9. Kirikova M., Businska L., Finke A. Towards Agile ABC. In: Proceedings of the 9th International Conference on Perspectives in Business Informatics Research (BIR 2010), LNBIP 64, Rostock, Germany, September 29–October 1, 2010, Springer, ISBN 978-3-642-16100-1, pp. 9-16.
10. Strazdina, R., Kirikova, M. Change management for fractal enterprises. In: Proceeding of the 19th International Conference on Information Systems Development (ISD 2010), Prague, Czech Republic, August 25-27, Springer, 2010.
11. Kirikova M., Finke A., Businska L., Stafeckis E., Sklamina O. Business process modeling dimensions and granularity for introducing ABC in SMEs. In: Hand in Hand with Business Analysis, Riga, Latvia, July 7, 2010, pp. 9-16.
12. Barzdins J., Kirikova M. (Eds.) Databases and Information Systems. In: Proceedings of the 9th International Conference Baltic DB&IS 2010, Riga, Latvia, July 5-7, University of Latvia Press, 2010, ISBN 978-1-60750-687-4, pp. 1-452.
13. Rudzajs P., Penicina L., Kirikova M., Strazdina R. Towards narrowing a conceptual gap between IT industry and university. In: Scientific Journal of Riga Technical University, Computer Science, S.5, Vol. 41, 2010, ISSN 1407-7493, pp. 9-16.
14. Šūpulniece I., Bušinska L., Kirikova M. Towards Extending BPMN with the Knowledge Dimension. In: Enterprise, Business-Process and Information Systems Modeling, Bider, I., Halpin, T., Krogstie, J., Nurcan, S., Proper, E., Schmidt, R., Ukor, R. (Eds.), Proceedings of the of the 11th International Workshop on Business Process Modeling, Development and Support

- (BPMDS 2010) and the 15th International Conference on Exploring Modeling Methods for Systems Analysis and Design (EMMSAD 2010), held together with the 22nd International Conference on Advanced Information Systems Engineering (CAiSE 2010), Tunisia, Hammamet. June 7-8, 2010, LNBIP 50, Springer, ISBN: 978-3-642-13050-2, pp. 69-81.
15. Birzniece I., Kirikova M. Interactive Inductive Learning Service for Indirect Analysis of Study Subject Compatibility. In: Proceedings of the BeneLearn 2010, Belgium, Leuven, May 27-28, 2010, pp. 1-6.
 16. Strazdiņa R., Kirikova M., Peņicina L., Rudzājs P. Knowledge Requirements Monitoring System: Advantages for Industry and University. In: Proceedings of the Second International Conference on Information, Process, and Knowledge Management (eKNOW 2010), Netherlands, Saint Maarten, February 10-16, IEEE, 2010, ISBN 978-0-7695-3956-0, pp. 120-125.
 17. Zeltmate I., Kirikova M., Grundspenkis J. Prototype for the knowledge representation supporting Inter-Institutional knowledge flow analysis. In: Learning and Instruction in the Digital Age (CELDA 2008), Spector, J.M., Ifenthaler, D., Isaias, P., Kinshuk, Sampson, D. (Eds.), Springer, 2010, ISBN: 978-1-4419-1550-4, pp. 87-100.
 18. Advances in Databases and Information Systems. Grundspenkis J., Kirikova M., Manolopoulos Y., Novickis L. (Eds.), Associated Workshops and Doctoral Consortium of the 13th East European Conference (ADBIS 2009), LNCS 5968, Riga, Latvia, September 7-10, 2009, 1st Edition, Springer, 2010, ISBN: 978-3-642-12081-7, 258p.
 19. Advances in Databases and Information Systems: Local Proceedings of 13th East-European Conference (ADBIS 2009). Grundspenkis J., Kirikova M., Manolopoulos Y., Morzy T., Novickis L., and Vossen G.(Eds.), Riga, Latvia, September 7-10, JUMI Publishing House Ltd., 2009, ISBN 978-9984-30-163-1, 495p.
 20. Businska L. and Kirikova M. Multidimensional modeling and analysis of business processes. In: Advances in Databases and Information Systems: Local Proceedings of 13th East-European Conference (ADBIS 2009), Grundspenkis J., Kirikova M., Manolopoulos Y., Morzy T., Novickis L., and Vossen G. (Eds.), JUMI Publishing House Ltd., 2009, ISBN 978-9984-30-163-1, pp. 33-47.
 21. Kirikova M. On the identity of Business Informatics. In: Proceedings of 8th International Conference on Perspectives in Business Informatics Research (BIR 2009), Aidemark J., Carlsson S., and Cronquist B. (Eds.), Kristianstad University College, Sweden, 2009, pp. 37-48.
 22. Kirikova M., Bušinska L., Finke A. Enterprise Models as Data. In: the (proceedings?) Practice of Enterprise Modeling: Second IFIP WG 8.1 Working Conference (PoEM 2009), Stockholm, Sweden, November 18-19, 2009, ISBN 978-3-642-05351-1, pp. 237-244.
 23. Strazdina R. and Kirikova M. Interaction model supporting collaboration between University and Industry. In: Proceedings of EDULEARN09 Conference, Gómez Chova L., Martí Belenguer D., Candel Torres I. (Eds.), July 6-8, Barcelona, Spain, 2009, ISBN 978-84-612-9802-0, pp.004879-004885.
 24. Kirikova M., Finke A., and Grundspenkis J. What is CIM: an information system perspective. In: Advances in Databases and Information Systems associated Workshops and Doctoral Consortium of the 13th East European Conference (ADBIS 2009), LNCS 5968, J.Grundspenkis, M.Kirikova, Y.Manopoulos, L.Novickis (Eds.), Springer, 2009, ISBN-10 3- 642-12081-4, pp.169-176.
 25. Kirikova M., Strazdina R., Andersone I., and Sukovskis U. Quality of study programs: an ecosystems perspective. In: Advances in Databases and Information Systems associated Workshops and Doctoral Consortium of the 13th East European Conference (ADBIS 2009), LNCS 5968, J.Grundspenkis, M.Kirikova, Y.Manopoulos, L.Novickis (Eds.), Springer, 2009, ISBN-10 3- 642-12081-4, pp. 39-46.
 26. Makna J. and Kirikova M. Complementary IS and BP changes in SMEs. In: Proceedings of the 3rd European Conference on Information Management and Evaluation (ECIME 2009), Ljungberg J. and Gothenburg K.G. (Eds.), Academic Publishing International, United Kingdom, 2009, ISBN 978-1-906638-44-3, pp. 515-523.

27. Rudzājs P. and Kirikova M. IT knowledge requirements identification in organizational networks: cooperation between industrial organizations and universities. In: Proceedings of the 18th International Conference on Information Systems Development (ISD2009), Wei Wei Song, W., Xu, S., Wan, C., Zhong, Y., Wojtkowski, W., Wojtkowski, G., Linger, H. (Eds.), China, Nanchang, September 16-19, 2009, Springer, 2011, ISBN: 978-1-4419-7355-9, pp. 187-199.
28. Kirikova M. Towards flexible information architecture for fractal information systems. In: The Proceedings of the International Conference on Information, Process, and Knowledge Management, eKNOW 2009, A. Kusiak and S. Lee (Eds.), IEEE Computer Society, 2009, ISBN 978-0-7695-3531-9, pp. 135-140
29. Grabis J., Kirikova M., and Vanags J. Information Architecture of Fractal Information Systems. In: the Proceedings of 11th International Conference on Enterprise Information Systems, Italy, Milan, May 6-10, 2009, ISBN 978-989-8111-86-9, pp. 150-155.
30. Rudzājs P., Kirikova M. Use of Web Agents for Information Exchange Provision between Employers and Educational Institutions. In: RTU 50th Internacional Scientific Conference, Latvia, Riga, April 23, 2009, p. 81. (in Latvian)
31. Kirikova M. Towards multifractal approach in IS development. In: Information Systems development: Challenges in Practice, Theory and Education, Vol. 1, Barry, Ch., Conboy, K., Lang, M., Wojtkowski, G., and Wojtkowski, W. (Eds.), Springer, 2009, ISBN: 978-0-387-30403-8, pp. 295-306
32. Apshvalka D., Donina D., Kirikova M. Understanding the problems of requirements elicitation: a human perspective. In: Information Systems development: Challenges in Practice, Theory and Education, Vol. 1, Barry, Ch., Conboy, K., Lang, M., Wojtkowski, G., and Wojtkowski, W. (Eds.), Springer, 2009, ISBN: 978-0-387-30403-8, pp. 211-224.

Participation in international scientific conferences

Papers provided 2009 – 2011

Businska L., Kirikova M. Knowledge dimension in business process modeling. The 23rd International Conference on Advanced Information Systems Engineering (CAiSE'11), London, United Kingdom, June 22-24, 2011.

Liepina L., Kirikova M. SCOR based ISS requirements identification. The 2nd Workshop on Business and IT Alignment (BITA 2011) in conjunction with the 14th International Conference on Business Information Systems (BIS 2011), Poznan, Poland, June 15-17, 2011.

Liepina L., Kirikova M. Towards process framework based ISS requirements definition for SMEs. The 12th International Conference on Business Process Modeling, Development and Support (BPMDS'11) in conjunction with the 23rd International Conference on Advanced Information Systems Engineering (CAiSE'11), London, United Kingdom, June 20-21, 2011.

Kirikova M. Data, information, and knowledge flows. The 21th European-Japanese Conference on Information Modelling and Knowledge Bases (EJC 2011), Tallinn, Estonia, June 6-10, 2011.

Kirikova M., Rudzajs P., Strazdina R. Knowledge Integration Points in Contemporary Business Informatics. The 9th International Conference on Perspectives in Business Informatics Research (BIR 2010), Rostock, Germany, September 29–October 1, 2010.

Kirikova M., Businska L., Finke A. Towards Agile ABC. The 9th International Conference on Perspectives in Business Informatics Research (BIR 2010), Rostock, Germany, September 29–October 1, 2010.

Strazdina, R., Kirikova, M. Change management for fractal enterprises. The 19th International Conference on Information Systems Development, (ISD 2010), Prague, Czech Republic, August 25-27, 2010.

Kirikova M., Finke A., Businska L., Stafeckis E., Sklamina O. Business process modeling dimensions and granularity for introducing ABC in SMEs. Hand in Hand with Business Analysis, Riga, Latvia, July 7, 2010.

Kirikova M., Businska L., Finke A. Enterprise Models as Data. The 2nd Working Conference on The

<p>Practice of Enterprise Modeling (PoEM 2009), Stockholm, Sweden, November 18-19, 2009.</p> <p>Kirikova M. On the identity of Business Informatics. The 8th International Conference on Perspectives in Business Informatics Research (BIR 2009), Kristianstad, Sweden, October 1-2, 2009.</p> <p>Makna J. and Kirikova M. Complementary IS and BP changes in SMEs. The 3rd European Conference on Information Management and Evaluation (ECIME 2009), Gothenburg, Sweden, September 17-18, 2009.</p> <p>Businksa L. and Kirikova M. Multidimensional modeling and analysis of business processes. The 13th East-European Conference (ADBIS 2009), Riga, Latvia, September 7-10, 2009, JUMI Publishing House Ltd.</p> <p>Kirikova M., Finke A., and Grundspenkis J. What is CIM: an information system perspective. The MDA workshop associated to the 13th East-European Conference on Advances in Databases and Information Systems (ADBIS 2009), Riga, Latvia, September 7-10, 2009.</p>	
<p>6. PEDAGOGICAL ACTIVITIES (2001 – 2011)</p>	
<p>Doctoral Thesis Supervised</p>	<p>Renāte Strazdiņa (Sprice) „Information system project alternative feasibility study in turbulent environment”, Dr.sc. ing., May 8, 2006.</p> <p>Imandra Galandere-Zīle "Use of knowledge management approach for supporting quality management system".</p> <p>Jānis Makņa "Information systems change management".</p> <p>Viktorija Vinogradova "e-Support system concept for study programme development".</p> <p>Anna Pozdņakova "Knowledge management models for SMEs".</p> <p>Ginta Štāle "IT ecosystem model development for e-education".</p> <p>Ilze Birzniece "Interactive inductive approach for analysis and design of conceptual structures".</p> <p>Ligita Bušinska "Domain-oriented multi-dimensional business process modeling".</p> <p>Pēteris Rudzājs "Development of service model for monitoring correspondence between educational demand and offer".</p> <p>Ludmila Peņicina "Development of knowledge service model for business process design".</p> <p>Ilze Bukša "Development of the model for analysis and assurance of correspondence between business processes and regulation".</p>
<p>Opponent/reviewer/prom-board member of several Ph.D. Dr.sc.ing. thesis</p>	<p>Moses Nives „Organizational Patterns for Knowledge Capture in B2B Engagements”, University of Stockholm, 2010.</p> <p>Oskars Vilītis „Metamodel-based transformation-driven graphical tool building platform“, University of Latvia, 2009.</p> <p>Ananda Edirisuriya „Design Support for e-Commerce Information Systems using Goal, Business and Process Modelling“, University of Stockholm, 2009.</p> <p>Lena Aggestam „IT-supported Knowledge Repositories: Increasing their usefulness by Supporting Knowledge Capture“, University of Stockholm, 2008.</p> <p>Edgars Celms „Transformation language MOLA and its application“, University of Latvia, 2007.</p> <p>Valdis Vītoliņš „Business Process Modeling Using a Metamodeling Approach“, University of Latvia, 2007.</p> <p>Theresia Olsson Neve "Capturing and analysing emotions to support organisational learning", University of Stockholm, 2006.</p>

	Erika Asnina „Formalization of problem domain modeling within model driven architecture”, Riga Technical University, 2006.
Supervisor of Master Thesis	2002 – 2011 supervised more than 25 Master Thesis
Supervisor of Bachelor Thesis and Engineer works	2002 – 2011 supervised more than 35 Bachelor Thesis and Engineer works
Study courses at RTU Faculty of Computer Science and Information Technology	<p>Industrial Information Systems Systems Analysis Tools Business Process Modelling</p> <p>Lecture courses in Bachelor's study program: System Analysis and Knowledge Acquisition – 3 ECTS Fundamentals of Computer Systems Design – 3 ECTS Information Systems (elective) – 3 ECTS Service Oriented Information Systems – 3 ECTS</p> <p>Lecture courses in professional Master's study program: Toolbox of Computer Systems Development Tools – 3 ECTS Information Systems Methodologies – 4,5 ECTS Project Quality Management – 4,5 ECTS Process-Oriented Systems Development (study project) – 3 ECTS Architecture-Oriented Systems Development (Study Project) – 3 ECTS</p> <p>Lecture courses in academic Master's study program: Requirements Engineering – 6 ECTS Knowledge Management – 6 ECTS Business Process Modeling: Methods and Tools (elective) – 3 ECTS Tools for Computer Systems Development (elective) – 3 ECTS Business Process Management and Engineering – 6 ECTS Service Science, Management and Engineering – 6 ECTS Enterprise Architecture and Requirements Engineering – 6 ECTS Knowledge Management Systems – 6 ECTS</p> <p>Lecture courses in Doctoral study program: Advances in Information Systems Development – 15 ECTS Advances in Knowledge Management – 7,5 ECTS</p>
Faculty member in International education programs Socrates/Erasmus etc.	
since 2005	Courses „Industrial information systems” – BALTECH
2007	Courses „Business Process Modelling” – Doctoral students summer school Druskininkai, Lithuania
2003	Courses „Knowledge Management” un „Domain Oriented Requirements Engineering” – Boise State University, ASV, within the Fulbright program
since 2002	Courses „Systems Analysis and Knowledge Acquisition”, „Requirements Engineering”, „Knowledge Management” etc. – RTU international study programs
Study-methodical conferences	
2009	Kirikova M. Examples of the study results. Paper in International Conference „Usage of Qualifications Frameworks and Recognition of Prior Learning”, October 22, 2009, Riga, Latvia.
Methodical materials	
2010	<p>Lecture materials for course „Service Science, Management and Engineering”</p> <p>Lecture materials for course „Business Process Management and Engineering”</p>

	Lecture materials for BALTECH students
2009	Lecture materials for course „Service Oriented Information Systems“ Lecture materials for course „Business Process Modeling: Methods and Tools“
2008	Stecjuka J. Kirikova M, Metodoloģijas informācijas sistēmu projektēšanas sākuma posmiem, CD_ROM, Rīga, Institute of Applied Computer Systems, Riga Technical University, 2008.
2007	Kirikova M. Study materials for course „Information Systems Methodologies“, Institute of Applied Computer Systems, Riga Technical University, Riga, within ESF project Nr. 2006/0238/VPD1/ESF/PIAA/06/APK/3.2.3.2./0015/0007. Kirikova M. Study materials for course „Integrated CASE tool „GRADE““, Institute of Applied Computer Systems, Riga Technical University, Riga, within ESF project Nr. 2006/0238/VPD1/ESF/PIAA/06/APK/3.2.3.2./0015/0007. Znotiņa D. un Kirikova M. Extra study materials for course „Requirements Engineering“ (Video) Institute of Applied Computer Systems, Riga Technical University, Riga, within ESF project Nr. 2005/0125/VPD1/ESF/PIAA/04/APK/3.2.3.2/0062/0007 ietvaros. Znotiņa D. un Kirikova M. Extra study materials for course „Knowledge Management“ (Video) Institute of Applied Computer Systems, Riga Technical University, Riga, within ESF project Nr. 2005/0125/VPD1/ESF/PIAA/04/APK/3.2.3.2/0062/0007. Kirikova M. Pārbaudes darbu zināšanu ietilpības palielināšanas metodika, UDK 378.147:004.4 Ki 600 p., Rīga, RTU DITF LDI STPK, 18. lpp. Kirikova M. Presentation „Business Process Modelling“, 364 p. Kirikova M. Vienkāršota uzņēmuma procesu atspoguļošanas metodika, UDK 330.43 Ki 600 v, Rīga, RTU DITF LDI STPK, 13. lpp.
2006	Kirikova M. Studiju materiāli kursam „Zināšanu vadība“, Institute of Applied Computer Systems, Riga Technical University, Riga, within ESF project Nr. 2005/0125/VPD1/ESF/PIAA/04/APK/3.2.3.2/0062/0007. Kirikova M. Study materials for course „Requirements Engineering“, LDI, RTU, Rīga, ESF projekta Nr. 2005/0125/VPD1/ESF/PIAA/04/APK/3.2.3.2/0062/0007 ietvaros. Kirikova M. Study materials for course „System Analysis and Knowledge Acquisition“, Institute of Applied Computer Systems, Riga Technical University, Riga, within ESF project Nr. 2005/0125/VPD1/ESF/PIAA/04/APK/3.2.3.2/0062/0007. Kirikova M. Conductors' study materials for course „System Analysis“, Latvia University of Agriculture, Jelgava, within ESF project Nr. VPD1/ESF/PIAA/04/APK/3.2.3.2/0004/0067. Kirikova M. Conductors' study materials for course „Process-oriented design“, Latvia University of Agriculture, Jelgava, within ESF project Nr. VPD1/ESF/PIAA/04/APK/3.2.3.2/0004/0067.

2003	<p>Kirikova M. Study materials for course "Knowledge management", Boise state University, USA.</p> <p>Kirikova M. Study materials for course "Domain Oriented Requirements Engineering", Boise state University, USA.</p> <p>J. Grundspenkis and M. Kirikova Lecture Notes and Teacher Slides on Knowledge Engineering, (under MOCURIS project), Lithuania.</p>
<p><i>Further education, professional development (staff development) in Latvian or foreign universities and research institutions</i></p>	
2011	<p>Managed lecture „Business process modeling“, FMS, August 16, 2011.</p> <p>21th European - Japanese Conference on Information Modelling and Knowledge Bases (EJC 2011), June 6-10, 2011, Tallinn, Estonia.</p> <p>2nd International Business Analysis Conference „Requirements require Management“, Riga, Latvia, May 25, 2011.</p> <p>Conference "ICT Proposers Day" organized by American Express Business Travel, Budapest, Hungary, May 19 - 20, 2011 (organized by European Commission request).</p> <p>EQANIE 2011 Conference on "Learning Outcomes and Quality Management in Informatics Education", University of Vienna, Vienna, Austria, February 17 - 18, 2011.</p>
2010	<p>The 12th annual conference organized by The Latvian Information and Communications Technology Association (LIKTA), December 3, 2010, Riga, Latvia.</p> <p>Workshop „Bologna Process – higher education internacionalization and recognition of the previously obtained formal education“, organized by VIAA and AIC, November 8, 2010, Riga, Latvia.</p> <p>Two days SCOR users workshop by SCM Pro Training (Sensi OÜ), organized by LLA, October 29-30, 2010, Riga, Latvia, October 29-30, 2010, Riga, Latvia. Certificate of achievement.</p> <p>„Practical Process Management Forum N4“, Riga Business school, October 28, 2010, Riga, Latvia.</p> <p>„IBM Forum 2010“, organized by IBM Latvia, October 13, 2010, Riga, Latvia.</p> <p>Conference „SDOE 625 Fundamentals of Systems Engineering“, November 6-10, 2010, Stevens Institute of Technology, Kongsberg, Norway.</p> <p>„Practical Process Management Forum N2“, Riga Business school, July 2, 2010, Riga, Latvia.</p> <p>International conference „IBM Academic Days Conference“, May 20-21, 2010, London, United Kingdom.</p> <p>„Practical Process Management Forum N1“, Riga Business school, April 29, 2010, Riga, Latvia.</p>
2009	<p>University's of Ottawa course "Pedagogical skill improvement" (8 academic hours). Certificate of further education Nr. TA 0441.</p> <p>Workshop "Lotusphere Comes to You 2009", organized by IBM Latvia,</p>

	April 8, 2009, Riga, Latvia.
2008	5-day course and workshop "Requirements analysis and specification writing" organized by Project Performance International (Australia), January 13-18, 2008, Amsterdam, The Netherlands. Certificate of Completion.
2007	Workshop " <i>IBM Rational: solutions for software architecture and quality management</i> ", organized by IBM Latvia, Riga, Latvia. IBM Rational product workshop about <i>Rational Portfolio Manager (RPM)</i> , Riga, Latvia. PhD Summer School "Formal methods for system analysis in informatics", April 13-19, 2007, Druskininkai, Lietuva. Workshop about European Union 7th framework program for scientific and technological development, Riga, Latvia.
2006	International conference „Practical Aspects of Knowledge Management (PAKM 2006)“, November 30 – December 1, 2006, Vienna, Austria. Courses about Innovation management.
2004	European Structural Funds acquire organized by Ministry of Education and Science.
2003 – 2004	Traineeship in <i>Boise State University</i> , USA, within <i>Fulbright</i> program.
<i>Other scientific activities</i>	
2010	Conference „Hand in Hand with Business Analysis“, participation with paper Kirikova M., Finke A., Businska L., Stafeckis E., Sklamina O. „Business process modeling dimensions and granularity for introducing ABC in SMEs“.
since 2007	Participation in the inter-university doctoral program „E-learning technology and management“ realization.
2007	Course's „Knowledge creation and management“ contents development to Riga International School of Economics and Business Administration.
2005	Scientific assessment of the operation of Magda Huisman „Evaluation Centre, National Research Foundation“, Pretoria, South Africa.
7. ORGANISATIONAL ACTIVITIES	
<i>Doctorate board</i>	
since 2005	Member of the Riga Technical University dr.sc.ing promotional board „RTU P-07“ on Information Technology
<i>Organisation of the international conferences</i>	
2011	BIR 2011 (International Conference on Perspectives in Business Informatics Research) organizer
since 2009	BIR (International Conference on Perspectives in Business Informatics Research) member of the steering committee
since 2008	ADBIS (East-European Conference on Advances in Databases and Information Systems) member of the steering committee
2010	BITA 2010 (1st Workshop on Business and IT Alignment) member of the programm committee
since 2009	ICEIS (International Conference on Enterprise Information Systems) member of the programm committee

since 2009	IT (International Conference on Information and Software Technologies) member of the programm committee
2009	ADBIS 2009 (The 13th East-European Conference on Advances in Databases and Information Systems, September 7-10, 2009, Riga, Latvia) member of the programm committee
since 2008	BIR (International Conference on Perspectives in Business Informatics Research) member of the programm committee
2007 - 2009	PoEM (Working Conference on The Practice of Enterprise Modeling) member of the programm committee
2004, 2005, and since 2007	CAiSE (International Conference on Advanced Information Systems) member of the programm committee
since 2004	The Annual international workshop BPMDS (Business Process Modeling, Development and Support) member of the programm committee
since 2002	The Annual international workshop BPMDS SoMeT (Software Methodologies Tools and Tecnique) member of the programm committee
since 2002	ISD (International Conference on Information Systems Development) member of the programm committee
2002	ECIS (European Conference on Information Systems) member of the programm committee
since 2001	ISD (Information Systems Development) member of the programm committee
2010	International Baltic Conference „Baltic DB&IS“ programm committee co-chair
2010	AMCIS 2010 (The 16th Americas conferences of Information Systems, Lima, Peru, August 12-15, 2010) reviewer
2009	ADBIS 2009 (The 13th East-European Conference on Advances in Databases and Information Systems, September 7-10, 2009, Riga, Latvia) DC programm committee co-chair
2009	ADBIS 2009 (The 13th East-European Conference on Advances in Databases and Information Systems, September 7-10, 2009, Riga, Latvia) organizing committee member
2009	ECIS 2009 (The 17th European Conference on Information Systems, Verona, Italy, June 8-10) paper reviewer
2004	CAiSE (International Conference on Advanced Information Systems) organizing committee member and workshop chair
2002	ISD (International Conference on Information Systems Development) organizing committee co-chair
<i>Other duties to be performed in university</i>	
since 2010	RTU Scientific Library's council vice-president
since 1994	RTU Faculty's of Computer Science and information Technology member of the Council
since 1994	RTU Scientific Library's consultant
since 1994	RTU Faculty of Computer Science and information Technology Institute of Applied Computer Systems Board member

1994 – 2005	RTU Faculty of Computer Science and information Technology scientific secretary of the Council
<i>Prepared magazines/journals, editors and other scientific activities</i>	
since 2010	Director of the new study program „Business Informatics“
since 2009	International Editorial Review International Journal of Information System Modeling and Design (IJISMD) Board member



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Pēteris Rudzājs**
Address Mārupes 45-37, Rīga, (Latvia)
Mobile +37126130133
E-mail(s) peteris.rudzajs@rtu.lv
Date of birth 04 February 1986

Work experience

Dates	10/2008 →
Occupation or position held	Research assistant
Main activities and responsibilities	Research activities
Name and address of employer	Riga Technical University, Faculty of Computer Science and Information Technology, Institute of Applied Computer Systems Meza street 1/3, Rīga
Type of business or sector	Information and communication
Dates	11/2007 →
Occupation or position held	Software developer
Main activities and responsibilities	Virtual Learning Environment Moodle: setup, maintenance, version updates, custom improvements, integration and synchronization with other information systems
Name and address of employer	Riga Technical University, Information Technology department Kalku street 1, Riga
Type of business or sector	Information and communication
Dates	01/2005 - 06/2005
Occupation or position held	Computer service technician
Main activities and responsibilities	Computer service: computer set assembly, installation of application software
Name and address of employer	SIA „VrindavaIT” Graudu street 45, Liepāja
Type of business or sector	Information and communication
Dates	01/2004 - 05/2004
Occupation or position held	Computer service technician
Main activities and responsibilities	Computer service: computer set assembly, installation of application software
Name and address of employer	SIA “Liepājas Skaitļošanas centrs 1” Liela street 7, Liepāja
Type of business or sector	Information and communication

Education and training

Dates 2010 →
Title of qualification awarded Doctoral studies
Name and type of organisation Riga Technical University, Faculty of Computer Science and Information Technology

providing education and training

Dates 2008 - 2010

Title of qualification awarded Master (M.sc.ing), Computer science and IT

Name and type of organisation providing education and training Riga Technical University, Faculty of Computer Science and Information Technology

Dates 2005 - 2008

Title of qualification awarded Bachelor (B.sc.ing), Computer science and IT

Name and type of organisation providing education and training Riga Technical University, Faculty of Computer Science and Information Technology

Dates 2001 - 2005

Title of qualification awarded Secondary education, Qualification: Applied software technician

Name and type of organisation providing education and training Riga Technical University, Liepaja Branch, Professional Secondary school

Dates 1992 - 2001

Title of qualification awarded Primary education

Name and type of organisation providing education and training Aizpute secondary school

Level in national or international classification

Personal skills and competences

Mother tongue(s) **Latvian**

Other language(s)

Self-assessment
European level ()*

English

Russian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user
B1	Independent user	A1	Basic User	A2	Basic User	A1	Basic User	A1	Basic User

(*) [Common European Framework of Reference \(CEF\) level](#)

Driving licence(s) B

Additional information

Courses (year 2007):

* "2274: Managing a Microsoft Windows Server 2003 Environment"

* "2275: Maintaining a Microsoft Windows Server 2003 Environment"

PUBLICATIONS

-Papers in scientific journal:

1. Rudzājs P., Peņicina L., Kirikova M., Strazdiņa R. Towards Narrowing a Conceptual Gap between IT Industry and University // Scientific Journal of Riga Technical University. Series 5, Computer Science. – vol. 43 (2010), ISSN 1407-7493, pp. 9-15.

2. Rudzājs P., Kirikova M. Mediated Competency Comparison between Job Descriptions and University Courses // Scientific Journal of Riga Technical University. Series 5, Computer Science. (2011), ISSN 1407-7493.

-Papers in conference proceedings:

2011

1. Rudzājs P., Kirikova M. Enhancing Knowledge Flow by Mediated Mapping between Conceptual Structures // Third International Conference on Information, Process, and Knowledge Management, Gvadelupa (Francija), Gosier, February 23 - 28, 2011 - pp. 36-41.
2. Rudzājs P., Kirikova M., Strazdiņa R., Sukovskis U. Towards Managing Learning Outcomes in the Jungle of Qualification Standards // EQANIE-Conference: Learning Outcomes and Quality Management in Informatics Education, Austria, Vienna, February 17-18, 2011 - pp. 1-7 (<http://www.eqanie.eu/pages/events/conference-vienna-2011/proceedings.php>)
3. Rudzājs P., Kirikova M., Strazdiņa R., Sukovskis U. Learning outcomes in the mirror of qualification frameworks // The 3rd International Conference: Institutional Strategic Quality Management - ISQM2011, Romania, Sibiu, July 14-16, 2011, pp. 1-8.
4. Rudzājs P., Bukša I. Business Process and Regulations: Approach to Linkage and Change Management // 10th International Conference on Perspectives in Business Informatics Research, Latvia, Riga, October 6-8, 2011 - pp. 1-15.
5. Birzniece I., Rudzājs P. Machine Learning Based Study Course Comparison // IADIS Conference on Intelligent Systems and Agents 2011 (ISA 2011), Italy, Rome, July 24-26, 2011 - pp. 107-111.
6. Rudzājs P. Education offer/demand monitoring approach // 10th International Conference on Perspectives in Business Informatics Research, BIR2011, Doctoral Consortium, Latvia, Riga, October 6, 2011. - pp. 1-10.

2010

1. Strazdiņa R., Kirikova M., Rudzājs P. Knowledge Integration Points in Contemporary Business Informatics // 9th International Conference on Perspectives in Business Informatics Research, BIR 2010: Local Proceedings, Germany, Rostock, September 29- October 1, 2010. - 33.-42. lpp.
2. Strazdiņa R., Kirikova M., Peņicina L., Rudzājs P. Knowledge Requirements Monitoring System: Advantages for Industry and University // Proceedings of the Second International Conference on Information, Process, and Knowledge Management eKNOW 2010. - IEEEExplore Conference Publishing Services, February 10-16, 2010 - pp. 120-125.

2009

1. Rudzājs P. Tīmekļa agentu izmantošana informācijas apmaiņas nodrošināšanai starp darba devēju un izglītības iestādi // 50. RTU Studentu zinātniskā un tehniskā konference. – Rīga, Latvija: RTU, 2009. – pp. 104-111.
2. Rudzājs P. and Kirikova M. IT knowledge requirements identification in organizational networks: cooperation between industrial organizations and universities. In: Proceedings of the 18th International Conference on Information Systems Development (ISD2009), Wei Wei Song, W., Xu, S., Wan, C., Zhong, Y., Wojtkowski, W., Wojtkowski, G., Linger, H. (Eds.), China, Nanchang, September 16-19, 2009, Springer, 2011, ISBN: 978-1-4419-7355-9, pp. 187-199.

PARTICIPATION IN SCIENTIFIC CONFERENCES

-Participation in local conferences

1. Rudzājs P., Peņicina L., Kirikova M. A pilot-architecture of an information system for monitoring knowledge requirements in organisational networks, Conference on Innovations and new technologies at Riga Technical University, LATVIA, Riga, February 23, 2010. (poster)
2. Rudzājs P., Kirikova M., Birzniece I. Development of the method and the prototype for the normalization and linkage of computer-based competence descriptions, Conference on Innovations and new technologies at Riga Technical University, LATVIA, Riga, September 24, 2010. (poster)

-Participation in international scientific conferences (with presentation)

2011

1. Rudzājs P., Kirikova M. Enhancing Knowledge Flow by Mediated Mapping between Conceptual Structures, Third International Conference on Information, Process, and Knowledge Management (eKNOW2011), Guadeloupe (France), Gosier, February 23-28, 2011.
2. Birzniece I., Rudzājs P. Machine learning based study course comparison, IADIS Conference on Intelligent Systems and Agents 2011 (ISA2011), Italy, Rome, July 24-26, 2011.

2010

1. Rudzājs P., Kirikova M. Mediated competency comparison between job descriptions and university courses, RTU 51th International Scientific Conference, LATVIA, Riga, October 11-15, 2010.

2009

1. Rudzājs P. Tīmekļa aģentu izmantošana informācijas apmaiņas nodrošināšanai starp darba devēju un izglītības iestādi, 50. RTU studentu zinātniskā un tehniskā konference, LATVIA, Riga, April 24-25, 2009.
2. Rudzājs P., Kirikova M. IT knowledge requirements identification in organizational networks: cooperation between industrial organizations and universities, 18th International Conference on Information Systems Development, CHINA, Nanchang, September 16-19, 2009.
3. Rudzājs P., Penicina L., Kirikova M., Strazdina R. Towards narrowing a conceptual gap between IT Industry and University, RTU 50th International Scientific Conference, LATVIA, Riga, October 12-16, 2009.

PARTICIPATION IN SCIENTIFIC RESEARCH PROJECTS

-International projects

1. 2011. The Baltic-German University Liaison Office project „Knowledge reuse and sharing in fractal and networked enterprises” (RTU project Nr. S 1563; agreement Nr. 01000-10/2011/07)) in cooperation with The University of Rostock –member
2. 2010 - 2011. OSMOZE programm's project „SECC: services for curricula comparison” (agreement Nr.1263) in cooperation with Monepellier University II - member

-Local projects

1. 2010 - 2011. "Development of linkage technology prototype for business process and normative documents bond" (RTU research project Nr. ZP-2010/7; agreement nr. 7.49) in cooperation with Accenture – member
2. 2009 - 2010. „Development of the method and the prototype for the normalization and linkage of computer-based competence descriptions” (RTU research project Nr. ZP-2009/15) in cooperation with Lattelecom – member
3. 2009. „A pilot-architecture of an information system for monitoring knowledge requirements in organisational networks” (RTU-II scientific project Nr.FLPP-2009/12) in cooperation with Lattelecom – member

MEMBER OF SECTORAL ASSOCIATIONS

Since 2010: Member of IEEE (Institute of Electrical and Electronics Engineers) and ACM (Association for Computing Machinery)

Curriculum Vitae



Personal information

First name(s) / Surname(s)

Renate Strazdina

Address(es)

Muitas iela 1, LV-1010, Riga, Latvia

Work experience

Dates

September 2007- present

Occupation or position held

Executive Director

Main activities and responsibilities

Specialization in IT projects, Business process improvement projects and EU projects

Name and address of employer

Ernst & Young Baltic Ltd.; Riga, Latvia

Type of business or sector

Audit and consultations

Dates

March 2004 – September 2007

Occupation or position held

Manager

Main activities and responsibilities

Specialization in IT projects, Business process improvement projects and EU projects

Name and address of employer

Pricewaterhouse Coopers, Ltd.; Riga, Latvia

Type of business or sector

Audit and revisions

Dates

October 2001 - March 2004

Occupation or position held

Information systems Implementation Consultant

Main activities and responsibilities

Business Software implementation

Name and address of employer

Via Pro SIA, Latvia

Type of business or sector

Information technologies

Dates

June 1998 - October 2001

Occupation or position held

Support Department Manager

Main activities and responsibilities

building up the user support function and ensuring and adequate flow of information between the IT development and maintenance function and the users in the largest Latvian insurance company

Name and address of employer

A/S Balta

Type of business or sector

Insurance Company

Key industry expertise

Government sector;
Technology;
Business process

Areas of specialization

EU related services	The largest projects for EU related services include accreditation and certification (3 years) of Rural Support Service, Ex-ante evaluation of strategic planning documents (2007-2013), different advisory and audit related services to Ministry of Agriculture, Ministry of Economics, Ministry of Finance and other state institutions.
Business process improvement	Process redesign and documentation for the State Employment Agency
IT supervision of implementation	IT project audit (Rural Support Service, State Stock Company "Latvia's State Forests" and State Social Insurance Agency)
Development of strategies and requirements	IT effectiveness projects include IT strategy development (Ministry of Finance, Secretariat of Special Assignments Minister for Electronic Government Affairs, Corruption Prevention and Combating Bureau and insurance company)

Education

Dates	2002-2006
Title of qualification awarded	Doctor Degree in Information Technology (Computer Science)
Name and type of organisation providing education and training	Riga Technical University; Riga, Latvia
Dates	2002-2004
Title of qualification awarded	Master Degree in economics
Name and type of organisation providing education and training	University of Latvia, Faculty of Economics and Management; Riga, Latvia
Dates	1998-2001
Title of qualification awarded	Master Degree in Information Technology (Computer Science)
Name and type of organisation providing education and training	Riga Technical University; Riga, Latvia
Dates	1995-1998
Title of qualification awarded	Master Degree in Information Technology (Computer Science)
Name and type of organisation providing education and training	Riga Technical University; Riga, Latvia

Personal skills and competences

Mother tongue(s) **Latvian**

Other language(s)

Self-assessment

English

Russian

Reading	Speaking	Writing
5	4	5
4	4	4

Membership of professional bodies

Chartered Association Certified Accountants (ACCA, UK) – 2009
PRINCE 2 project management practitioner (2010)

Most important projects during the professional career

- ▶ 2010 – ongoing, State Chancellery of Latvia, Consultants support to the development of single national human resources information and management systems within the framework of the European Social Fund project "Human resource management information technology systems development and implementation;
- ▶ 2010-2011, The State Chancellery of Latvia, Consultations on the control authorities in the performance evaluation within the framework of the European Social Fund project "Reducing the administrative burden and simplification of administrative procedures";
- ▶ 2010, Consultations to the Ministry of Agriculture and its subordinated institutions in ICT management process design and feasibility studies, Ministry of Agriculture of the Republic of Latvia;
- ▶ 2010, Consultations to the Ministry of Welfare and its subordinated institutions in development of support function model and in centralized IS and ICT security solution documentation, Ministry of Welfare of the Republic of Latvia;
- ▶ 2009 – on going, United National Archives Information System designing and implementing of the second project phase; State Agency Culture Information Systems, including preparation of procurement documentation;
- ▶ 2009 – on going, Electronic procurement system e-catalogue functionality development ;State Regional Development Agency; (Business process analysis, quality management);
- ▶ 2009, VB SIA „Latvijas Radio”, budget planning and implementation and development of control activities as well as cost calculation and calculation process improvement of broadcasts;
- ▶ 2008 – 2009, Evaluation of control activities, Ministry of Finance (Ernst & Young Baltic Ltd.);
- ▶ 2008, Riga City Council, Riga City authorities internal audit's cost optimization analysis in Riga City Council, identifying the necessary changes in the internal audit organization of work and changes leading to resource savings;
- ▶ 2008, Methodology for annual control report, Ministry of Finance (Ernst & Young Baltic Ltd.);
- ▶ 2008, Rural Development Fund internal control evaluation, Ministry of Agriculture of the Republic of Latvia (Ernst & Young Baltic Ltd.);
- ▶ 2008, Annual control report methodology, Ministry of Agriculture of the Republic of Latvia (Ernst & Young Baltic Ltd.);
- ▶ 2008, Ex-post control methodology, Rural Support Service (Ernst & Young Baltic Ltd);
- ▶ 2008, Assistance to the Audit institution of European Fisheries Fund in evaluating internal control system, Ministry of Agriculture (Ernst & Young Baltic Ltd.);
- ▶ 2008, Effectiveness audit of technical assistance project implementation; Ministry of Environment, (Ernst & Young Baltic Ltd.);
- ▶ 2008, Seminar EU fund planning period 2007-2013, Ministry of Finance

(Ernst & Young Baltic Ltd.);

► 2008, Methodology for audit sampling, Rural Development Fund (Ernst & Young Baltic Ltd.);

► 2008, Accreditation of LGA (EU funds), Ministry of Economy (Ernst & Young Baltic Ltd.);

► 2007– 2008, European Union Structural Funds and Cohesion Fund management and control systems assessment for the period of 2007-2013, Ministry of Finance (Ernst & Young Baltic Ltd.);

► 2007, Extension of the State budget planning and execution's system (including preparation of procurement documentation, Ministry of Finance of Republic of Latvia;

► 2007, EU funds administrative efficiency analysis, Ministry of Finance (Ernst & Young Baltic Ltd.);

► 2007, Expenses confirmation process assessment, Ministry of Finance (Ernst & Young Baltic Ltd.);

► 2007, Review of procedures for the first level control of I INTERREG III program, State Regional Development Agency (Ernst & Young Baltic Ltd.);

► 2007, The second level control for INTERREG program, Ministry of Regional Development and Local Government (Ernst & Young Baltic Ltd.);

► 2007; E-Governance development programme and programme document development (including procurement), Secretariat of Special Assignments Minister of Electronic Government Affairs; Project manager (Pricewaterhouse Coopers Ltd.);

► 2007, Ex ante Evaluation of European Union Structural Funds and Cohesion Fund planning documents for the period of 2007 – 2013, Ministry of Finance (Pricewaterhouse Coopers Ltd.);

► 2007, Functional audit of introduction of Youth program "Youth in action", Project manager (Pricewaterhouse Coopers Ltd.);

► 2007, Functional audit of EU structural funds utilization in environment sector of Ministry of Environment (Pricewaterhouse Coopers Ltd.);

► 2007, Self-government administrative capacity evaluation in order to evaluate ability of their participation in next period European Regional Development Fund and Cohesion Fund environment projects for Ministry of Environment, Project manager (Pricewaterhouse Coopers Ltd.);

► 2006, Thematic Evaluation of the Development Process of the EU Structural Funds planning documents (Single Programming Document and Programme Complement) and activities included in the documents for the programming period of 2004 – 2006., Ministry of Finance (Pricewaterhouse Coopers Ltd.);

► 2006, Thematic Evaluation of Project Selection Criteria for Projects Co-financed by EU Structural Funds, Ministry of Finance (Pricewaterhouse Coopers Ltd.);

► 2005, Design of conception of the State budget planning and execution's system, Ministry of Finance of Republic of Latvia (Pricewaterhouse Coopers Ltd.);

► 2005, Accreditation of Rural Support Service as a Payment Agency of EAGGF Guarantee Section (Pricewaterhouse Coopers Ltd.);

► 2005, Technical Specification of the Integrated Information Network and Local Database (Corruption Preventing and Combating Bureau) for needs of Ministry of Finance. Project manager (Pricewaterhouse Coopers Ltd.);

► 2004, Accreditation and Certification of Rural Support Service as a Payment Agency of EAGGF Guarantee Section (Pricewaterhouse Coopers Ltd.);

► 2004, Accreditation of 2nd Level Intermediaries and 2nd level intermediaries (Central Finance and Contracting Agency), Project manager (Pricewaterhouse Coopers Ltd.);

► 2003, Finance management system implementation SIA Jaunalko (system requirement, system desing, implementation and user support) (Pricewaterhouse Coopers Ltd.);

► 2002, Finance management system implementation SIA Lattako

(system requirement, system desing, implementation and user support)
(Pricewaterhouse Coopers Ltd.);

- ▶ 2002, Finance management system implementation SIA Swedwood (system requirement, system desing, implementation and user support) (Pricewaterhouse Coopers Ltd.);
- ▶ 2002, The Information system development supervision project (included preparation of procurement documents) State Stock Company "Latvia's State Forests";
- ▶ 2001-2004, Information systems Implementation Consultant, Business Software implementation, including preparation of tender documents, Via Pro SIA, Latvia;
- ▶ 1998-2001, A/S Balta Insurance operation support system development (system requirement, development, testing, and user support) (A/S Balta).

PUBLICATIONS:

1. Strazdiņa R., Kirikova M., Peņicina L., Rudzājs P. Knowledge Requirements Monitoring System: Advantages for Industry and University// Proceedings of the Second International Conference on Information, Process, and Knowledge Management eKNOW 2010, Netherlands, Saint Maarten, 10.-16. February 2010. – 120.-125. page.
2. Rudzājs P., Peņicina L., Kirikova M., Strazdiņa R. Towards narrowing a conceptual gap between IT Industry and University// In: Scientific Proceedings of Riga Technical University, Computer Science, S. 5, Vol. 41, RTU, Riga, 2010, --.---.pp.
3. Strazdiņa R., Kirikova M. Interaction Model Supporting Collaboration between University and Industry// International Conference on Education and New Learning Technologies, EDULEARN09, Spain, Barcelona, 6-8 July 2009.-004879.-004885.page.
4. Renāte Strazdiņa, Jūlija Stecjuka, Ilze Andersone, Mārīte Kirikova. Statistical analysis for supporting inter-institutional knowledge flows in the context of educational system, Article in the full text of the Conference article proceedings, 2008.
5. Renāte Strazdiņa, Uldis Sukovskis, Mārīte Kirikova. Supporting inter-institutional knowledge feedbacks in the context of engineers' educational system, Article in the full text of the Conference article proceedings, 2008.
6. SPRICE, R., KIRIKOVA, M. Feasibility study: New knowledge demands in turbulent business world. In: Proceedings of ISD2005, August 13 – 17, 2005, Karlstadt, Sweeden. In: Information Systems Development - Bridging the Gap between Academia and Industry, to be published by Springer.
7. LOCĀNS, D., SPRICE, R., SMĀĢIS, M., REITERS, A., HIBNERIS, A., ZAKREVSKIS, A., MATISONS, P., ĶIRŠAKMENS, J. Information Technologies for business management. Latvian Business Consultants Association, Riga, 2005. – 41 page.
8. SPRICE, R., MAKNIA, J. Managing IT/IS projects for Enterprise Integration. In: Proceedings of the 7th IFAC Symposium on Cost Oriented Automation, Elsevier Limited, Oxford, UK, 2004. -121. - 127. p. ISBN 0-08-044309 5
9. STRAZDIŅA R., KIRIKOVA M., RUDZĀJS P. Knowledge integration contemporary Business Informatics// 9th International Conference on Perspectives in Business Informatics Research: Local Proceedings (accepted), Germany, Rostock, Sept. 29 – Oct. 1, 2010. - pp -----.
10. KIRIKOVA M., STRAZDIŅA R., ANDERSONE I., SUKOVSKIS U. Quality of Study Programs: an Ecosystems Perspective// Workshop on Intelligent Educational Systems and Technology-enhanced Learning (INTEL-EDU) associated to the 13th East-European Conference, ADBIS 2009, 13th East-European Conference on Advances in Databases and Information Systems (ADBIS 2009), LATVIA, Riga, September 7-9, 2009. - ----. pp

11. STRAZDINA R., STECJUKA J., ANDERSONE I, KIRIKOVA M. Statistical analysis for supporting inter-institutional knowledge flows in the context of educational system, Accepted at the 19th International Conference on Information Systems development (ISD2008), Paphos, Cyprus, August 25.-27, 2008.
12. NIKOFOROVA O., KIRIKOVA M., STRAZDINA R. An open work on research method in the field of systems engineering: the bachelor level. In: Scientific Proceedings of Riga Technical University, Computer Science, S. 5, Vol. 34, RTU, Riga, 2008, pp. 17-27, ISSN 1407-7493
13. KIRIKOVA M., STRAZDINA R., OSIS J., GRUNDSPENKIS J. „Analysis of business process flexibility at different levels of abstraction” In proceedings of the 9th International Conference on Enterprise Information Systems (June, 12-16, 2007) Funchal, Madeira, p.386-396
14. NIKIFOROVA, O., KIRIKOVA, M., STRAZDINA, R. Some Issues on Research Essentials in the Field of Software Engineering: Simplified Look on Scientific Method for Bachelor Level Research In conference proceedings: ENASE 2007 (Barcelona).
15. NIKIFOROVA, O., STRAZDINA, R., KIRIKOVA, M. Bachelor Level Research Methodology In The Field Of System Engineering Paper In conference proceedings SEFI and IGIP Joint Annual Conference 2007.

CURRICULUM VITAE

PERSONAL INFORMATION

■ First name, last name **Uldis Sukovskis**

EDUCATION AND ACADEMIC GRADES

2008	Corresponding member of Latvian Academy of Science
1992	Dr.sci.ing., Information Technology
1975	Riga Polytechnical Institute (Riga Technical University). Higher education in Applied Mathematics

SEMINARS AND COURSES

2010	Experiences in Education, Education and New Learning Technologies, Barcelona
2008	Quality Assurance in Higher Education, International Seminar, Riga
2008	Attractiveness of Science and Technology Education – Problems and Solutions with Student Enrolment in Science and Technology Programs, International Seminar
2002	Information Systems Audit and Control Association (ISACA), Certified Information Systems Auditor (CISA).
2001	Lloyd's Register Quality Assurance ISO 9001:2000 Course for internal auditors, Riga
2001	Rapid Economic Justification Workshop, Microsoft, Riga
1999	Decision Base, Celemi International AB, Sweden, KIC Ltd., Riga
1998	Internal Project Management Audit, RITI, Riga

WORK EXPERIENCE

1975 - present	Riga Technical University (former Riga Politechnical Institute). Assistant, Lecturer, Docent, Assoc. Professor, Professor (since 2004), Dean of Faculty of Computer Science and Information Technology (2005-2007), Vice-rector for Academic Affairs (since 2007).
1995 - present	Exigen Services, Riga Information Technology Institute. Director, IT Consulting and Audit.
1994 - 1995	SWH Informatīvās Sistēmas Ltd. Group manager.
1991 - 1993	Software House Riga. Software developer.

PUBLICATIONS (RECENT)

1. Klimavicius M., Sukovskis U. Business process driven data warehouse development, Scientific Proceedings of Riga Technical University, 5th series, Computer Science, Applied Computer Systems, Vol.22, RTU, 2005, pp. 242-248 (EBSCO)
2. Klimavicius M., Sukovskis U. Risk management methodology for data warehousing projects, ISD'2005 Proceedings of the Fourteenth International Conference on Information Systems Development, Karlstad University Studies, 2005, pp. 231-241(EBSCO)
3. Šmite D., Sukovskis U. Knowledge Management in Distributed Environment, Industrial Proceedings of the International Conference on European Software Process Improvement (EuroSPI), November 2005, Hungary, pp. 515-5.22.
4. Nikulshins V., Nikiforova O., Sukovskis U. Analysis of Activities Covered by Software Engineering Discipline, Databases and Information Systems, Seventh International Baltic Conference on Databases and Information Systems, Communications, VGTU Press „Technika” scientific book No 1290, Vilnius, Lithuania, 2006, pp. 130-138
5. Nikiforova O., Kirikova M., Sukovskis U. Two hemisphere model driven architecture for knowledge map development in the task of study program analysis, in: Scientific Proceedings of Riga Technical University, Computer Science, Applied Computer Systems, the 5th series, Vol. 26, Riga, Latvia, RTU, 2006, pp. 112-123 (in Latvian), ISSN 1407-7493.

6. Klimavicius M., Sukovskis U. Applying MDA and universal data models for data warehouse modeling, Proceedings of 10th WSEAS International Conference on Automatic Control, Modelling and Simulation, WSEAS Press, 2008, pp. 332-337 (ACM)
7. Teilans A., Kleins A., Sukovskis U., Merkurjev Y., Meirans I. A meta-model based approach to UML modelling. Proceedings of EUROSIM/UKSIM 10th International Conference on Computer Modelling & Simulation, Cambridge, UK, IEEE, 2008, pp. 667-672 (SCOPUS, Engineering Village, IEEE, ACM)
8. Kirikova M., Grundspenkis J., Sukovskis U. Educational "Ecosystem" for Information Systems Engineering, Proceedings of the TMCE 2008 Symposium, Izmir, Turkey, 2008, pp.769-783 (Millpress Science Publishers)
9. Nikulsins V., Nikiforova O., Sukovskis U. Mapping of MDA Models into the Software Development Process, Databases and Information Systems, Proceedings of the Eighth International Baltic Conference Baltic DB&IS 2008, H.-M. Haav and A. Kalja (Eds.), Tallinn University of Technology Press, Tallinn, Estonia, June 2-5, 2008, pp. 217-226.
10. Nikulsins V., Nikiforova O., Sukovskis U. Principles of Model Driven Architecture for the task of study program development. SEFI 36th Annual Conference, July 2-5 2008, Aalborg, Denmark, 8 p.
11. Kirikova M., Strazdina R., Sukovskis U. Supporting inter-institutional knowledge feedbacks in the context of engineers' educational system. International Conference of Education, Research and Innovation (ICERI 2008), November 17-19, 2008, Madrid, Spain, 10 p.
12. Nikiforova O., Nikulsins V., Sukovskis U. Integration of MDA Framework into the Model of Traditional Software Development, Databases and Information Systems V - Selected Papers from the Eighth International Baltic Conference, DB&IS 2008, by IOS Press in the series "Frontiers in Artificial Intelligence and Applications", Volume 187, pp.229-239, 2009 (SCOPUS, DBPL)
13. Kirikova M., Strazdina R., Andersone I., Sukovskis U. Quality of Study Programs: an Ecosystems Perspective. 13th East-European Conference on Advances in Databases and Information Systems (ADBIS 2009), 2009. 8 p. (SpringerLink, Engineering Village, DBPL)
14. Strazdina R., Kirikova M., Sukovskis U., Zitmanis Z., Grevins J. An Ecosystem Approach to a Cross-Disciplinary Education // International Conference on Education and New Learning Technologies EDULEARN10, ISBN: 978-84-613-9386-2, International Association of Technology, Education and Development (IATED), 2010. 8 p.

MEMBERSHIP

Riga Technical University Senate, Member.
 Information Technology Commission of RTU Senate, Chairmen.
 Legislative Commission of RTU Senate, Member.
 Strategy Commission of RTU Senate, Member.
 Riga Technical University Doctoral Board P-0, Member.
 Faculty of Computer Science and Information Technology Council. Chairman (2005-2007), Member.
 RTU Institute of Applied Computer Systems, Board Member.
 RTU Riga Business School Council, Chairman.
 Riga Information Technology Institute Council, Member (until 2009).
 Latvian Information Technology and Telecommunications Association, Member.
 ISACA Latvia Chapter, Vice-president (2005-2008), Member.
 The Baltic Sea Region University Network Steering Committee, Substitute Member.
 International Software Testing Qualification Board, Latvia Chapter Board Member.
 JSC DATI Board, Deputy Chairmen, Member (2003-2004)
 Information Technology, Telecommunications and Electronics Vocational Education Board, Member (2001-2007)
 Member of several organizing and program commissions (ISD, ADBIS, IBIMA, DB&IS, BIR etc. program commissions, ADBIS 2009, CAISE2004 organizing commissions).

Dr. Hab.comp.sc., professor V.Zagursky

Head of Computer networks and systems technology department. *Research interests:*

RTU, Faculty of Computer science
and information technology
Latvia

- Computer networks and systems architecture and technology
- Comparative digital signal processing in frequency and time domains
- Testing and design of the mixed signal circuits and systems
- Wireless and wire sensor networks

Valery Zagursky has been working in IECS starting from 1965, engineer 1965-1968, junior researcher 1968-1973, senior researcher 1979-1983, head of laboratory 1983-2007, principal researcher from 2008. He has degrees: Candidate of technical sciences, Latvian Academy of Sciences (Riga), 1972, Senior researcher, USSR Academy of Sciences, Institute of Control Problem (Moscow), 1978, Doctor of technical sciences, Ukrainian Academy of Sciences Institute of Cybernetics (Kiev), 1990, Doctor Habilitus Computer Sciences, Latvian University (Riga), 1992. He has been involved in various projects related to development of novel digital signal processing methods and their applications as well as development of multiple measurement and control systems: V.Zagursky (Head of Project), Problems of analog-digital system metrology, Latvian Council of Science (LCS), 1991-1993, V.Zagursky (Head of LCS Project), Creation and investigation whole dynamic testing methodology of heterogeneous analog-digital systems, 1994-1996, V.Zagursky (Principal Researcher of LCS project), Distributed systems for local monitoring of dynamic objects, Latvian Council of Science, 1994-1996, V.Zagursky (Head of LCS project), Creation of information technology for codesign and test high performance analog-digital systems, 1997-2000, V.Zagursky (Head of LCS project) "Multimedia mixed signal systems testing and design " Nr.01.0032, 2000.-2004.gg., V.Zagursky (Head of LCS project) " Multimedia mixed signal systems verifikācija" Projekts Nr.05.1395, 2005.-2008.gg., V.Zagursky (Principal researcher of LCS project) "Multimedia based e-services systems choice of architecture ". Nr.05.1661, 2004.-2008.gg., V.Zagursky (Principal researcher of LCS project) " Electronic services intellectual control", Projekts Nr. 09.1240, 2009.-2012.gg., V.Zagurskis (Principal researcher of LCS project), "Wireless embedded systems performance and energy consumption optimization", Nr.05.1345, 2009.-2012.gg.,

V.Zagursky (developer-ekspert of ERAF projects No:2005/0131/VPD1/ESF/PIAA04/APK/3.2.3.2/0004/0067, „COMPUTER NETWORKS AND SYSTEMS ARCHITECTURE”, No : 2005/0125/VPDI/ESF/PIAA/APK/3.2.3.2/0062/0007, “COMPUTER NETWORKS”

Research and development activities have been carried out in parallel and implemented in a number of instruments and integrated systems. Five doctor dissertation have been performed during the research works, has been received Latvian state award (1980), and Award of the Latvian Academy of Sciences (1987). Author of more than 245 publications, including 39 inventions, inclusion in the 1998, edition of International Who's Who of Information Technology Professionals. V.Zagursky is IEEE professional member (No40187763) from 1992, ACM-Association for Computing Machinery member (No4776480) from 1995, Journal

Automatic Control and Computer Science editorial member, Riga Technical University(RTU), Computer Science and Information Technology faculty professor council member from 1997, habilitation doctor council member from 2003, RTU Elektroniskās un telekomunikāciju fakultātes habilitācijas doktora padomes loceklis no 2003.g., E U ekspertu komisijas loceklis (ERAF 1.1.1.2 aktivitāšu projekts 1DP/1.1.1.2 0/ 09/APIA/VIAA/138), LCS ekspertu komisijas loceklis (Computer Science, Information Technology Electronic and telecommunication directions – projekti 09.1247, 05.1359, 06.0027, 05.1421-2008.g., 2009.g.). The lastest International Conferences on Circuits, Signals and Systems ,CSS2004, Florida USA , CSS2005, Marina del Ray, Orlando, USA, CSS2006, San Francisco, California, USA - International Program Committee, member, International Scientific Conference Informatics in the Scientific Knowledge 2006.g.,-International Program Committee member, Fourth International Workshop on Content-Based Multimedia Indexing, CBMI 2005.g., Riga, Latvia- International Technical Program Committee member.

Recent publications

1.V.Zagursky, *Improving Identification Algorithm for Mixed Signal Systems,SICPRO 07,VI International conference, ISBN 5-201-14492-8” System Identification and Control Problems” Moscow, January29- 1February 2007g.Proceedings, pp.937-942.*

2.V.Zagursky, Dz.Zibin, *Random Multiple Access Method for Wire and Wireless Local networks, 17-th International Conference on Computer Theory and Applications, ICCTA 2007, Egypt , Alexandria, 1-3 September, Proceedings, 2007g. pp137-141.*

3.V.Zagursky, D.Bliznjuk, *Approach for wireless resources access control, The ICS2008 International Computer Symposium, November 13-15, 2008, Tamkang University, Damsui, Taipei County, Taiwan, R.O.C. Proceedings of 2008 International Computer Symposium, 145-150pp.<http://ics2008.csie.tku.edu.tw/>*

4.V.Zagurskis, A.Morozovs, *Dažu jautājumu analīze un atrisinājumi daudzkanālu sistēmas laika intervālu reģistrācijas konstruēšanai. Proceedings of RTU 49th International Scientific Conference ISSN 1407-7493,Technology of Computer Control, RTU , Riga 2008g. October 13-15,pp.63-72.*

5.Zagurskis, D Bliznjuks, *Pieeja bezvadu resursi piekļuves kontrolei, Proceedings of RTU 49th International Scientific Conference ISSN 1407-7493,Technology of Computer Control, RTU , Riga 2008g. October 13-15 pp.72-80.*

6.Zagursky, D.Bliznjuk, *Approach to verification of mixed-signal non-linear object, Proceedings of VIII International Conference , ISBN 978-5-91450-027-3, “..System Identification and Control Problems” SICPRO-09, Moscow,January26- 30,2009g.813-830pp.*

7.Zagursky, A.Morozov, *Macromodel for uncertainty estimation of mixed-signal system elements under extreme operating condition, Proceedings of VIII International Conference, ISBN 978-5-91450-027-3, “..System Identification and Control Problems” SICPRO-09, Moscow,January26- 30,2009, 821-827pp*

8, R.Taranovs, V. Zagurskis, *Jaunā pieeja vides piekļuves vadībā bezvadu sensoru tīklos*, RTU zinātniskis raksti, ISSN 1407-7493, 5. sērija, Datorzinātne, Datorvadības tehnoloģijas, Rīga, 2009.g., 50-57lpps.,

VITA

Voldemar A. Innus

5242 Pendale Court
Pendleton, New York 14120
(716) 870-8622

EDUCATION

State University of New York at Buffalo

Degree: Master in Business Administration
Awarded May 1975

Degree: Bachelor of Science in Business Administration
Awarded: May 1971

Latin Honors: "Cum Laude"
Departmental honors: "With High Distinction"

ADMINISTRATIVE EXPERIENCE

Buffalo State College, State University of New York

Vice President and Chief Information Officer *March 2006 – December 2010*

Duties: Responsible for College Library, Instructional Resources, and Computing and Technology Services.

Chief Information Officer (CIO) - Institution Wide Information Technology Planning & Implementation: Provide the leadership, coordination, and management to integrate the IT planning and implementation efforts by the college community. This activity includes the development of an IT Governance structure and organizational structure to support integrated planning and implementation of IT on campus, a robust consultative and communication plan, and the development of a comprehensive budget to support this activity.

College Library and Instructional Resources: Provide leadership to the library and instructional resources to develop the strategy for future directions and plans that take advantage of technology to better serve faculty, staff, and students. Help develop the infrastructure and support to permit greater cooperation and synergy with Computing and Technology Services.

Computing and Technology Services (CTS): Provide leadership to CTS to develop the strategy for future directions and plans that reflect the demand for information technology infrastructure and support. CTS provides central university wide infrastructure (hardware and software), training, and development for the university's faculty, staff, and students.

Government Relations Officer *December 2006 – December 2007*

Duties: Served as Buffalo State's liaison to the State University of New York and local (city and county), state, and federal government officials and legislative bodies on all government relations matters of importance to Buffalo State and the higher education community.

State University of New York at Buffalo

Vice President and Chief Information Officer *July 2002 – March 2006*

Duties: Responsibilities are the same as listed below.

Chief Information Officer (CIO) *January 2000 – June 2002*

Duties: Position was raised to the Cabinet level. Responsibilities are the same as listed below.

Senior Associate Vice President and Chief Information Officer (CIO), University Services *August 1996 – January 2000*

Duties: Serve as the University's Chief Information Officer (CIO). Responsible for University Libraries and Computing and Information Technology. Serve as the responsible officer for University Services in the absence of the Senior Vice President.

Chief Information Officer (CIO) - Institution Wide Information Technology Planning & Implementation: Provide the leadership, coordination, and management to integrate the IT planning and implementation efforts by the university community. This included the development of an IT Governance structure and organizational structure to support integrated planning and implementation of IT on campus, a robust consultative and communication plan, and the development of a comprehensive budget to support this activity. This included the Educational Technology Plan being implemented by the Office of the Provost through the 15 academic faculties and schools, the central IT planning and implementation conducted by CIT and the University Libraries, and the administrative systems initiatives and maintenance to support the business and student support functions of the university.

University Libraries: Provide leadership to the University libraries to develop the strategy for future directions and plans that reflect current fiscal realities and that take advantage of technology to implement digital library capabilities to better serve faculty, staff, and students. Help develop the infrastructure and support to permit greater cooperation and synergy with Computing and Information Technology and the various consultative faculty groups representing the faculties and schools as well as the academic program distributed information technology "nodes" established by the Office of the Provost. The University Libraries are composed of ten campus libraries supporting the instructional, research, and public service needs of over 25,000 undergraduate and graduate students and 2,000 faculty in 15 faculties and schools representing the arts and sciences, professional schools and the health sciences. The combined holdings of the libraries are over 3 million volumes.

Computing and Information Technology (CIT): Provide leadership and organizational development to CIT to develop the strategy for future directions and plans that reflect the exploding demand for information technology infrastructure and support and that take into account the very quickly changing information technology environment at the decentralized (unit) level. CIT provides central university wide infrastructure (hardware and software), training, and development for the university's faculty, staff, and students on two major campuses and for all of the faculty located at our affiliated hospitals supporting our medical education responsibilities.

Senior Associate Vice President, University Services *January 1992-July 1996*

Duties: Responsible for all University Facilities operations and University Business operations reporting to the Office of the Controller. Participate in the annual development and implementation of the University's operating Budget. Serve as the responsible officer for University Services in the absence of the Senior Vice President.

University Facilities: Physical Facilities and Facility Planning and Design were merged into a single organization under the direction of an Associate Vice President. The responsibilities of the new entity were the same as those listed below for both organizations.

Office of the Controller: Responsible for providing central business office support for university operations. Areas included were: the University Budget Office, Accounting and Payroll, Student Finances and Records, Purchasing and Campus Services, and Human Resources.

Operating Budget Planning and Implementation: The same as outlined below.

Associate Vice President, University Services *February 1988 - December 1991*

Duties: Responsibility for University Budget Office, Facility Planning and Design and Physical Facilities.

Serve as the responsible officer for University Services in the absence of the Vice President.

Operating Budget Planning and Implementation: Responsible for the management of the annual campus budget planning, budget submission, and budget execution process for the State appropriated budget (approximately \$200 million). To meet these responsibilities I chaired the Budget Committee Support Group and served on the Budget Committee (ex-officio). Issues raised by this process are discussed and reviewed with the Central Office of the State University of New York as well as the Governor's Division of the Budget. Conduct analysis and recommend action to the President, Provost and Vice Presidents on a wide range of issues affecting resource planning and resource allocation. Provide information to deans, directors, and chairs on budgetary issues and concerns.

Facility Planning and Design: Responsible for the Offices of Architectural Services, Design and Construction, and Space Management. Coordinate the activities necessary to complete the University's new building program. This included five major capital projects (Fine Arts Center, Natural Sciences and Mathematics Complex, School of Medicine Building, Student Activities Center Addition, and North Campus Surge Building) and a total planned capital expenditure of approximately \$250 million. Responsible for over 100 major capital repair and programmatic facility rehabilitation projects per year at an annual expenditure level of \$3-\$4 million. Responsible for preparing and updating the campus Facility Development Strategy, which included determining facility needs, facility justification, and space allocation.

Physical Facilities: Responsible for maintenance and development of University grounds and buildings. This included the North Campus, which encompasses 1,200 acres, 53 buildings, 4,710,656 gross square feet, and the South Campus, which encompasses 150 acres, 77 buildings, 3,430,610 gross square feet. The campus is also responsible for over 200,000 net square feet of leased space at four area hospitals with which the University has affiliation agreements and the University conducts programs and activities at five additional off-site locations.

Associate Vice President for Resource Planning, University Services

June 1986 - January 1988

Duties: Responsibility for the University Budget Office, Office of Architectural Services, and Office of Space Management

Operating Budget Planning and Implementation: Responsible for the annual campus budget planning, budget submission, and budget execution process for a state appropriated budget of over \$150 million. Conduct analysis and recommend action to the President, Provost and Vice Presidents on a wide range of issues affecting resource planning and resource allocation. Provide information to Deans, Directors, and Chairs on budgetary issues and concerns.

Architectural Services: Coordinate the activities necessary to complete the University's new building program. This included five major capital projects (Fine Arts Center, Natural Sciences and Mathematics Complex, renovation of Cary/Farber/Sherman complex, Student Activities Center addition, and the School of Architecture and Environmental Design Building) and a total planned capital expenditure of \$250 million.

Space Management: Responsible for preparing and updating the campus Facility Development Strategy, which included determining facility needs, facility justification, and space allocation.

Associate Provost for Administrative Services, Office of the Provost

October 1984 - May 1986

Duties: Responsible for academic budget management, academic budget planning, academic facilities utilization, and administrative management of the Office of the Provost.

Academic Budget Planning: Coordinated the development of data and systems for University enrollment management and planning and academic planning for the fifteen Faculties and Schools reporting to the Provost. Primary responsibility for drawing together and preparing for the Provost, consistent with academic initiatives identified in the planning process, the annual budget request.

Academic Budget Management: Responsible for ensuring that the execution of the budget is consistent with the academic plan. Provide day-to-day budgetary oversight. Conduct analysis and provide direction and advice to deans, chairs, and directors on a wide range of budgetary issues.

Academic Facilities: Coordinate the participation of academic units in planning new facilities. Reviewed utilization of existing academic space and recommended space reallocation. Reviewed and prioritized requests for academic facility rehabilitation.

General Administration: Planned and implemented the administrative transition from two vice presidencies (Vice President for Academic Affairs and Vice President for Health Sciences) to a single academic office (the Office of the Provost). Served as general manager for the Office of the Provost.

Assistant Vice President and Executive Assistant, Academic Affairs

December 1983 - September 1984

Duties: In addition to functioning as the Assistant Vice President, served as chief of staff and responded to deans and directors on all matters and issues pending in the Vice President's office. This special assignment resulted from a decision not to refill the position of Associate Vice President for Academic Affairs.

Assistant Vice President, Academic Affairs January 1979 - November 1983

Duties: Assist the Vice President for Academic Affairs in budgeting, personnel matters, and operational supervision of units reporting to the Office of the Vice President for Academic Affairs.

Budget: Participate in overall developments and management; handle technical details of budget; handle needed records, reports, communications; advisor to vice president, deans, assistants; impact of personnel decision on budget analysis of University financial reports; interface Business Officers; Academic Affairs; detail and follow-up; preparation of future budget requests.

Personnel: Provide interpretation of Board of Trustees policies, UUP, SUNY, SUNY Buffalo policies on personnel actions; advisor to Vice President, deans, assistants; review all staff personnel action in Academic Affairs; prepare justifications for personnel actions (deans, directors, etc.): considerable interaction with personnel on many job-related actions within Academic Affairs; draft Academic Affairs policy memos in area of personnel administration; establish financial and personnel information needs that are needed in the office of the Vice President for Academic Affairs.

Operating Procedure: Establish operating procedures for personnel and budget matters in Academic Affairs; establish office procedures; continual interaction with units within Academic Affairs on follow-through; interface with Business Officers.

Assistant Dean, Academic Affairs and Financial Management, School of Management *September 1977 - December 1978*

Duties: Responsible for the day-to-day operation of the School of Management. Work with the dean to develop and implement all long-range consequential academic and resource plans.

Academic Affairs and Planning: Identified needs and opportunities for new programs. Developed and implemented plans revising existing academic programs.

Financial Management: Prepared and submitted necessary budget justifications. Implemented manpower and resource allocations. Monitored resource use and maintained all financial reports. Reviewed and approved all expenditure plans.

Managerial Initiatives: Represented the dean in his absence. Was responsible for hiring, assignment and promotion of all classified personnel.

Director of Resource Management and Systems, School of Management
January 1976- August 1977

Duties: Responsible for all resource allocations.

Budgetary Planning Control: Had responsibility for 18-20 separate programs and account budgets. Prepared budget requests and justifications and contacted appropriate University offices to ensure equitable allocation of resources to the School. Prepared and recommended internal budgets for School of Management programs and projects.

Operations Efficiency Improvement: examined means of more effectively utilizing the School's resources. Prepared detailed plans, entered into vendor negotiations and supervised implementation of changes.

Support Services and Facilities Planning: allocated space, equipment and research assistance by analyzing faculty needs within resource constraints. Reviewed all research grant proposals.

Director of Graduate Student Affairs, School of Management
July 1972- December 1975

Duties: Responsible for administration of graduate programs in the School of Management. Developed and maintained the Master's program application system. Was responsible for monitoring the advisement and academic progress of 600 graduate students. Visited local firms and attended national conferences to disseminate information on graduate programs. Had responsibility for scheduling all courses offered by the School of Management. Planned and organized summer course offerings. Prepared enrollment and admissions targets for undergraduate and graduate programs.

Academic Advisor (part-time) School of Management *July 1971 - June 1972*

Duties: Responsible for screening and accepting undergraduate applicants to the School of Management. Student program Coordinator and Advisor, responsible for 450 junior and senior management students.

Nalco Boats Manufacturing Company, Toronto, Ontario

Sales Manager *-December 1966 - February 1968*

TEACHING EXPERIENCE

Riga Business School, Riga Technical University- *November 2007 – December 2007*
November 2008 – December 2008
November 2009 – December 2009
November 2010 – December 2010

Course:

MBA IT Elective: Information Technology and Strategy. Course explores information technology strategies of an organization from the perspective of a Chief Information Officer and it provides conceptual frameworks for the development and deployment of information technology strategies. Course covers technology concepts and trends underlying current and future developments in information technology, and fundamental principles for the effective development of computer-based information systems.

School of Management, University at Buffalo- *September 1972 - December 1978*

Courses:

MGQ 201-202, Mathematical Analysis for Management. These required courses cover the application of linear and non-linear functions in management. The topics covered include limit theory, differentiation, optimization, integration, matrix algebra, and linear programming.

MGS 403, Planning and Control. Capstone course for baccalaureate candidates in Management. Includes a survey of formal aspects of management planning and control with applications to production, distribution, capital investment, research and development, and comprehensive management planning.

UNIVERSITY AT BUFFALO COMMITTEES AND SERVICE

School of Management

Undergraduate Program Committee (1971-72)
MBA Program Committee (1972-78)
MBA program Retention Sub-committee (1972-76)
MBA program Admissions Sub-committee (1972-76)
Honors Committee (1974-76)
Placement and Career Guidance Committee (1972-78)
School of Management Operations Committee (1974-78)

University Assignments and Committees

A.C.T. Operational Implementation Committee (1973)
Chair, "12-10 Conversion" of Professional Staff (1976)
Academic Computing Advisory Committee (1979-86)
Administrative Computing Advisory Committee (1980-1986)
Computer Allocations Committee (1979-1981)
Board of Associates for Institutional Studies (1979-1983)
Campus Committee on Professional Evaluation (1980-1984)
Task Force on Implementation of General Education (1980)
Registration Task Group (1979-83)
Chair, Academic Affairs, Data Base Planning Task Force (1980-1984)
Budget Committee (ex-officio)(1986-1996)
Administrative Computing Executive Committee (1987-1988)
Chair, Administrative Computing Executive Committee (1988-1992)
Chair, Budget Committee Support Group (1988-1996)
Chair, Winter Break Shutdown Task Force (1990)
Chair, Priorities for Administrative Computing and Communications in Information Technology (1992-1996)

Chair, Administrative Group (1993-1998)
 Chair, Space Planning and Rehabilitation Committee (1993-1997)
 Budget Tactics Group (1994-1995)
 Chair, Darwin D. Martin House Steering Committee (1994-1996)
 Chair, University High School Exploration Committee (1994-1996)
 Enrollment Management Group (1994-1995)
 Chair, Early Retirement Task Force (1994-1996)
 Advocacy Group (1996-1997)
 Chair, IT Steering Committee (1996-2001)
 Chair, IT Coordination Committee (1996-2006)
 Chair, University at Buffalo Y2K Steering Committee (1997-2000)
 Institute for Administrative Quality Improvement (Executive Committee Member) (2000-2004)
 Middle States Accreditation Steering Committee (2001-2003)
 Co-Chair, Administration Sub Committee, Middle States Accreditation (2001-2003)
 Center of Excellence in Information Systems Assurance Research and Education Advisory Board (2002 – 2006)
 Center for Computational Research (CCR) Advisory Board (2002 – 2006)
 Executive Sponsor, UB 2020 Information Technology Strategic Transformation Initiative (2005-2006)

BUFFALO STATE COLLEGE COMMITTEES AND SERVICE

Chair, Innovation/Creativity/Efficiency Task Force (2008 – 2009)
 Chair, Information Services and Systems (ISAS) Advisory Board (2007 – present)
 College Planning Council (2006 – present)
 Budget Priorities Group (2006 – present)
 Executive Sponsor, Efficiency and Effectiveness Initiatives (2006 – 2007)

EXTERNAL SERVICE

Steering Committee Member, Developing Capacity in the Management of International Cooperation in Belarus: Institutionalization of Western Style Master of Business Administration Program (2009-present) This is a five year project to establish an English language western style MBA program at Belarus State University (BSU) in Minsk, Belarus. The Riga Business School at Riga Technical University is working together with BSU on this project and funding is provided by the Eurasia Foundation, Latvian government, and Belarus.

SUNY Strategic Planning Process Group Member (2009-2010)

Board Member, Saint Andrews Latvian Lutheran Church of Toronto, Canada (2007- present)

Search Committee, Chief Information Officer, City of Buffalo (2006)

Search Committee, Chief Technology Officer, Buffalo Public Schools (2006)

Consultant, Riga Technical University and University of Latvia Information Technology Initiatives (2006 – 2008) The purpose of these initiatives is to engage in joint institutional collaboration in information technology planning and implementation. The effort includes deployment of a national dark fiber network infrastructure and its connection to the world's education and research networks (GEANT, NORDUnet, Internet 2, etc), access to electronic materials in support of research and instruction, and ERPs and applications in support of teaching, student support services, and administration.

Expert Consultant, European Social Fund Project - Riga Business School, Riga Technical University (2005 – 2007) The goal of the project was to develop and implement an information technology concentration for the MBA program offered by the Riga Business School.

Chair, Riga Business School Advisory Board, Riga Technical University, Riga, Latvia (2003 – present) The Advisory Board is responsible for the review, approval, and monitoring the implementation of the RBS Strategic Plan. The Board also reviews and approves the annual RBS budget and approves all commitments in excess of \$50,000.

Board Member, Buffalo Prep (2003-2007) Buffalo Prep is a not-for-profit entity that provides talented, motivated, low-income minority students with academic and personal preparedness to attain a private school consortium diploma and attend a leading college or university.

Regional Fiber Network Initiative Consortium (RFNIC) (2002 – present) The purpose of RFNIC is to plan, develop, and expand a regional fiber network for educational, governmental, and not-for-profit entities by leveraging UB's regional dark fiber network. Members include: UB, Buffalo State College, Erie County, the City of Buffalo, the Niagara Frontier Transportation Authority (NFTA), and New York State Department of Transportation (DOT).

Task Force Member, Oracle Application Software Implementation Strategy (OASIS) Task Force, The Research Foundation of the State University of New York. (2001-2002) Served as the sole SUNY campus member of the Task Force. The Task Force consisted of top executive leadership from the Research Foundation, the Oracle Corporation, and KPMG. The Task Force was responsible for developing the action plan to resolve key system priorities and needs as a consequence of the Foundation's implementation of the Oracle Enterprise Resource Plan (ERP).

Executive Advisory Council Member, Oracle Application Software Implementation Strategy (OASIS) Executive Advisory Council, The Research Foundation of the State University of New York. (2001 –2003) Served as the campus representative on this council that included senior leadership from the Research Foundation, SUNY campuses, Oracle Corporation, and KPMG. The Council was responsible for providing priority setting and guidance to the remediation efforts that were necessary as a consequence of the Foundation's implementation of the Oracle Enterprise Resource Plan (ERP) to conduct the Foundation's business.

Board Member, New York State Education and Research Network - NYSErNet (2000 – Present) Serve as a Board member on both legal entities that constitute NYSErNet. NYSErNet advances network technologies and applications that enable collaboration for New York State's public and private universities and promote technology transfer for research and education.

Executive Board Member, The State University of New York (SUNY) Council of Chief Information Officers (CCIO) (2000- 2007) CCIO is the professional association consisting of representatives from each of the 64 campuses within the SUNY system. A primary purpose of the Council is to lead coordinated information technology initiatives within the SUNY system, including strategic planning.

Board Member, State University of New York Learning Network (SLN) Advisory Board (1999-2007) The SLN is the SUNY Asynchronous Learning Network (ALN). It serves over 40 campuses and provides access to more than 80 degree programs through the offering of over 4,000 courses.

Chair, Project Coordinating Board – MBA Program Creation at Yanka Kupala State University of Grodno, Belarus (1999 to 2003) Served as the coordinating officer for the partner institutions that facilitated the establishment of an MBA program in Grodno, Belarus. The planning partners in this initiative were: Yanka Kupala State University of Grodno, the Riga Business School at Riga Technical University, Niagara University, and the State University of New York at Buffalo. The Eurasia Foundation provided major funding for this project.

Member, State University of New York Committee on Resource Allocation Methodology (RAM) (1992-1999) Served as a member of the committee that developed and implemented the resource allocation model for the distribution of state tax and tuition dollars to the 64 campuses of the State University of New York system.

Chair, Riga Business School Planning Committee, Riga Technical University, Riga, Latvia (1991 to 2003). Served as the coordinating officer for the partner institutions that helped establish the Riga Business School. That included the involvement of the State University of New York at Buffalo, the University of Ottawa, the University of Latvia, and Riga Technical University. External funding for this project exceeded \$4,000,000 and the contributing organizations included: United States Information Agency (USIA), United States Agency for International Development (USAID), the Canadian government (CIDA), the Latvian Freedom Foundation, the American Latvian Association, the Latvian National Federation in Canada, the SOROS Foundation, the Latvian government, Riga Technical University, the University of Ottawa, the University of Gothenburg, Niagara University, and the University at Buffalo.

City of Buffalo Prepared test instruments for the Municipal Civil Service Commission.

President, Latvian Lutheran Church of Buffalo (1987 - 2003).

Tennessee State University (TSU) (1978-1979) Served as a member of the National Alliance of Business (NAB) Cluster Program at TSU

PRESENTATIONS

The Evolving Role of the CIO: It May Not Be as Simple as You Might Think

New York State Higher Education CIO Conference – July 14 – 19, 2010, Buffalo New York

Seminar: Information Technology and Strategy

European Union funded program offered by the Latvian IT Cluster and Riga Business School – June 9 – 11 2008

Information Technology and the Enterprise

American Chamber of Commerce and Riga Business School Lecture Series – November 12, 2007

Leadership and Teamwork (Organizational Effectiveness)

The Riga Business School Executive MBA Program – May 2007

Managing Resources: Leadership and Strategic Planning

Summer Institute for EFL Administrators, University at Buffalo – June 2005

Vision: Western New York Not-For-Profit Information Technology Network

Spring 2005 Internet 2 Member Meeting, Regional Optical Networks Panel – May 2005

Leadership and Teamwork

The Riga Business School Executive MBA Program – April 2005

The Application of “The Seven Habits of Highly Effective People” to Organizational Effectiveness

The Riga School, Riga, Latvia – December 2003

Vision: Western New York Not-For-Profit Information Technology Network

The Equality Club, Buffalo, New York – November 2003

Financing Higher Education: The Real World

Graduate School of Education (ELP 507), University at Buffalo – October 2003

Managing Resources: Strategic Planning & Accessing New Funding Sources

Summer Institute for EFL Administrators, University at Buffalo – July 2003

Teamwork and Organizational Effectiveness

Institute for Administrative Quality Improvement, University at Buffalo – May 2003

High Performance Organizations

Yanka Kupala State University, Grodno, Belarus – September 2002

The Role of Leadership in Virtual Project Management

Accepted paper (with Janis Grevins) at the Eleventh International Conference on Information Systems Development – Riga, Latvia – September 12-14, 2002

High Performance Organizations

Riga Business School EMBA Program, Riga, Latvia – August 2002

Leadership

School of Management (MGB 301 - Introduction to Organizational Behavior), University at Buffalo – March 2002

High Performance Organizations

Riga Business School MBA Program, Riga, Latvia – June 2001, June 1999

Financing Higher Education (Resource Allocation Methodologies)

Graduate School of Education (OAP 501: Higher Education in the United States), University at Buffalo – November 2001, November 2000, November 1999, November 1998, November 1997

UB Information Technology Planning: A Case Study

School of Management (MGS 607: Corporate Information Systems Management), University at Buffalo – October 1999, November 1998

Information Technology Hiring and Retention Strategies

Konan University, Japan, Leadership visit to the University at Buffalo – October 1999

Developing the Vision for Information Technology

Fulbright Scholars Program, University at Buffalo – August 1998

Resource Allocation Methodologies

State University of New York Campus Presidents, Albany, New York – December 1997

Financing Higher Education (Resource Allocation Methodologies)

Ministry of Higher Education and University Rectors, Gdansk, Poland – October 1997

YOK Resource Allocation Project

The Turkish Higher Education Council and The British Council, University at Buffalo – September 1997

AWARDS AND RECOGNITION

The Three Star Order (2005) Conferred by the President of the Republic of Latvia in recognition of outstanding civil merit in the service of Latvia.

State University of New York Chancellor's Medal for Recognition of Excellence in Professional Service (2002)

Riga Technical University Medal (1998) In recognition for the contribution in establishing and developing the Riga Business School at Riga Technical University in Riga Latvia.

BETA GAMMA SIGMA (1971) The international honors society that recognizes academic excellence in business

CURRICULUM VITAE

Zigmunds Zitmanis

Work Experience

July 2011 -	<p>Administrative director, Riga Technical University</p> <p>Main tasks:</p> <ul style="list-style-type: none">○ Development of RTU administrative capacity;○ Coordination of RTU administrative functions;○ Development of university's IT, Library, Sports and Culture Strategies and submission for approval to RTU Senate and monitoring the execution;
June 2006 – June 2011	<p>Deputy Rector for Information Technology, Riga Technical University</p> <p>Main tasks:</p> <ul style="list-style-type: none">○ Develop university IT Strategy and submission for approval to RTU Senate and fulfill its execution;○ Management of IT department;○ IT project development and execution;○ Number of direct employees 30.
November 2004. – June 2006	<p>Director of Administration, Riga Business School</p> <p>Main tasks:</p> <ul style="list-style-type: none">○ Management of information technology, library, building maintenance and accounting services;○ Project development and execution to attract external funding;○ Number of direct Employees 15.
September 2001. – October 2004	<p>Technical director, Riga Business School</p> <p>Main tasks:</p> <ul style="list-style-type: none">○ Management of information technology and building maintenance services;○ Management of procurement process;○ Development business of rental services;○ IT project management;○ Number of direct employees 9.
March 1998 – August 2001	<p>IT administrator, Riga Business School</p> <p>Main tasks:</p> <ul style="list-style-type: none">○ Network and IT system administration;○ Database programming;○ IT resource planning;○ IT procurement management.

Education

September 2009 until now	Doctorate program – Computer Systems, RTU Faculty of Computer and Information Systems;
September 2003 – June 2006	Riga Business School, earned MBA degree;
September 1999 – June 2001	RTU Faculty of Engineering Economics, earned master degree in entrepreneurship and management;
September 1996 – June 1999	RTU Faculty of Engineering Economics, earned bachelor degree in entrepreneurship and management;
September 1985 – June 1996	10. High school in Liepaja.

Additional Education

December 1998	609 Programming with Microsoft Access for Windows 95 (Soft-Tronik Riga)
August 1999	Lotus Domino 4.5 & Notes 4.5 Administration 1 (Baltic Computer Academy)
February 2000	AD210 Domino Designer Fundamentals (Baltic Computer Academy)
September 2000	AD240 Domino R5 Application Security & Workflow (Baltic Computer Academy)
November 2000	AD270 Domino Applications Architecture (Baltic Computer Academy)
December 2000	1379 Building Client/Server Applications with Microsoft Access 2000 (Baltic Computer Academy)
September 2001	2151 Microsoft Windows 2000 Network & Operating System Essentials (Baltic Computer Academy)
November 2001	2152 Supporting Microsoft Windows 2000 Professional & Server (Baltic Computer Academy)
November 2001	2071 Querying Microsoft SQL Server with Transact SQL (Baltic Computer Academy)
June 2002	2077 Programming a Microsoft SQL Server 2000 Database (Baltic Computer Academy)
August 2002	2072 Administering a Microsoft SQL Server 2000 Database (Baltic Computer Academy)
August 2008	Corporate IT Management: Software Project Management (Riga Business School)
March 2009	2934 Deploying and Managing Business Process and Integration Solutions Using Microsoft BizTalk Server 2006 (Baltic Computer Academy)
March 2009	5061 Implementing Microsoft Office SharePoint Server 2007 (Baltic Computer Academy)
August 2009	2791, Implementing and Maintaining Microsoft SQL Server 2005 Analysis Services (Baltic Computer Academy)

Certificates

Earned certificates	Microsoft Certified Professional (CLP) Microsoft Windows administration; Microsoft Certified Technology Specialist (MCTS) Microsoft Office SharePoint Server 2007 configuration; IBM Lotus Certified Professional (LCP) database development; ITIL Foundation Certificate in IT Service Management; Prince2 Foundation Certificate (Prince).
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PUBLIKĀCIJAS

1. Z. Zitmanis „University Wide Initiative – Implementation of Common E-learning Platform at Riga Technical University”, Proceedings of EDULEARN09 Conference, Spain, Barcelona 6.-8. July of 2009, ISBN:978-84-612-9802-0

Other

Languages:	Latvian (born language), English (very good), Russian (good)
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Descriptions of the study program's courses

DSP706 Business Process Management and Engineering
DSP707 Service Science, Management and Engineering
DSP708 Advanced Data Technologies
DSP703 Systems Theory
DSP701 Knowledge Management Systems
DSP700 Enterprise Architecture and Requirements Engineering
DSP702 Research Methods for Business Informatics
DSP710 Software Applications in Education
DSP705 Artificial Intelligence in Business
DSP709 Master Thesis
DLP700 e-Business Solutions
DOP701 Portfolio Management Technologies
DPI721 Business Analytics
DPI704 Quality, Risk and Security Technologies
DPI700 Storage Networking
DPI722 e-Services in Education and Science
DST702 Mobile, Grid, and Ambient Networking
RRI700 Networking Technologies in Education
DOP702 Customer Relationship Management and Social Network Technologies
DOP700 Enterprise Information Technology Architecture, Applications, and Integration
PBM415 Business Law
PBM423 Business Ethics
PBM409 Entrepreneurship
PBM430 Business Communication Skills
PBM703 Information Technology and Strategy
HPS401 Basics of Pedagogical Process

Code	DSP706
Course title	Business Process Management and Engineering
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Kirikova Mārīte
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	Business process management and engineering requires understanding of basic principles of business process modelling, management, improvement, and reengineering. During the course students will learn to develop business process models, assign performance identifiers to process elements, assess the correspondence of business process to its goal, and to develop business process change proposals and implement changes at the level of a business process model.
Goals and objectives of the course in terms of competences and skills	The goal of the course is to prepare the student for accomplishment of the following tasks: business process modelling, business process design, business process management, and definition of information systems and services requirements based on detailed business process models.
Learning outcomes	Is able to recognize and use business process modelling languages and tools. Can develop and use in business process analysis, management, and improvement models of complex business processes. Can relate business process models to different enterprise architectures and analyse processes in compliance with the chosen architecture. Can develop a business process management model and identify business process support software requirements.

Code	DSP707
Course title	Service Science, Management, and Engineering
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Kirikova Mārīte
Academic staff	Alksnis Gundars
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	The course is about service oriented approach in business and information systems and software engineering. It concerns vertical (inside the enterprise) and horizontal (inter-organisational) service provision situations. The emphasis is put on new innovative service development. The course comprises service design methods, basics of building service oriented architectures (SOA), and other topics of service engineering. Students will experiment with various service development and running technologies. They will learn approaches to service governance according to most popular service management methods and standards. Students are expected to have basic knowledge in business process modelling, systems theory and portfolio management. The course concerns also research advances in SOA.
Goals and objectives of the course in terms of competences and skills	The course objective is to provide theoretical knowledge and skills enabling students to systematically design, develop and govern services.
Learning outcomes	Is able to explain basic principles, pros, and cons of SSME and SOA; recognizes elements of SOA infrastructure and SOA life cycle. Can assess and explain the necessity (or the opposite) of service introduction according to organisational goals and enterprise/business architecture. Using service development tools is able to integrate services into the business process by choosing the services which are most suitable to business goals of the enterprise. Is able to monitor service performance of business processes, identify the need for performance improvement, and suggest a service improvement plan.

Code	DSP708
Course title	Advanced data technologies
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Eiduks Jānis
Academic staff	Lavendelis Egons
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	Database is a backbone an information system. There is a large variety of information systems, therefore different types of database data models, query languages and architectures are needed. In this course the following advanced data models are discussed:

	<ul style="list-style-type: none"> - object database models; - multidimensional database models; - temporal database models; - active database models; - multimedia database models; - deductive database models; - intelligent database models. <p>In the course above-mentioned models are combined with well-known and very wide used relational database models.</p> <p>The course includes main groups of query languages used in advanced database systems, such as SQL and its object and temporal extensions; multidimensional query languages for data warehousing systems and artificial intelligence languages.</p> <p>The course concerns also issues on information systems architecture for large variety of possibilities to organize storing, searching and presenting data, information and knowledge: different client/server architectures with application servers and web servers, distributed database architectures and multibase architectures.</p> <p>Databases are not only for data storage and retrieval, they can perform different algorithms to provide needed information and knowledge. To illustrate this database capability deductive databases, data mining, and intelligent databases are considered.</p>
Goals and objectives of the course in terms of competences and skills	<p>The main objectives of the course are to provide knowledge and/or skills in:</p> <ul style="list-style-type: none"> - the newest directions in databases data models; - discovering advantages and disadvantages of database data models; - handling advanced methods of data storage in different databases; - recognizing and using searching possibilities in different databases; - information searching in different databases; - retrieving knowledge from different databases; - recognizing, designing, and using different database systems architectures and their possibilities; - using database systems evaluation criteria.
Learning outcomes	<p>Master different types of universal database extensions, their logical models.</p> <p>Can design universal, temporal, spatial, deductive, multidimensional, and semi-structured database systems.</p> <p>Know how to ensure data quality.</p>

Code	DSP703
Course title	Systems Theory
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Grundspenķis Jānis
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	<p>The goal of systems theory is to develop general description methods of systems, based on systems thinking, providing inclusion of all critical factors that have influence on systems performance. In this course students acquire foundations of systems theory. The focus is on specific systems theories which represent relevant factors for business development. Students obtain understanding of principles of systems classification and system classes. Foundations of cybernetics are included into the course as well as theories of living systems and viable systems. Students learn to use set theory and graph theory which are needed for systems modelling and are used in other courses.</p>
Goals and objectives of the course in terms of competences and skills	<p>The goal of the course is to acquire foundations of systems theory, systems control and management principles and to get acquainted with living and viable system concepts, and with applications of systems theory in the business informatics context.</p>
Learning outcomes	<p>Student is able to interpret basic concepts of systems theory concerning phenomena of real world.</p> <p>Student knows laws and principles of systems.</p> <p>Student is able to classify systems accordingly with different classification criteria.</p> <p>Student is able to construct the model of system's structure and to carry out its analysis.</p> <p>Student understands principles of system control and management.</p> <p>Student knows basic notions of living and viable systems and applications of systems theory in business informatics context.</p>

Code	DSP701
Course title	Knowledge Management Systems
Course status in the programme	Compulsory/Courses of Limited Choice
Course level	Post-graduate Studies
Course type	Academic
Field of study	Computer Science
Responsible instructor	Kirikova Mārīte
Academic staff	Apšvalka Dace
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	In this course students will learn about the concepts of organisational learning and knowledge, essential factors of organisational learning, knowledge flow and networks and technologies supporting them. Human-computer interaction and interface design will be discussed. Students will learn to define knowledge management strategy, to design knowledge management systems, to plan the development of these systems and will be familiar with different knowledge management technologies.
Goals and objectives of the course in terms of competences and skills	Successful completion of this course will provide students with the content and skills necessary to: explain the impact of the nature of knowledge on the management of knowledge; understand and interpret the concept and objectives of knowledge management in terms of advanced business practices and technologies; analyse knowledge processes within an organisation in terms of organisational performance and development; identify approaches (tools and techniques) that organisations may take to make a contribution to organisation's knowledge processes; understand the need for equal consideration of technological, human and organisational aspects; identify and define the best approach of knowledge.
Learning outcomes	Ability to perform a knowledge audit. Ability to align business strategy and knowledge management strategy. Ability to use and evaluate knowledge management technologies. Ability to understand the nature of knowledge and socio-ethical and administrative factors of knowledge management. Ability to choose knowledge management methods and tools for product and service oriented organisations and organizational networks. Ability to design knowledge management system.

Code	DSP700
Course title	Enterprise Architecture and Requirements Engineering
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Kirikova Mārīte
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	The course presents basic approaches to requirements engineering. Students learn to identify and design enterprise/business architectures and specify requirements for organisational information systems viewing people and computer systems as nodes of information processing. They learn to analyse and design information flows in organisations and organisational networks and how to develop the information logistics model. IBM requirements identification and management tools are used in the course. Acquired knowledge is beneficial not only for requirements identification for information and communication technology solutions; it is applicable also for the design of products and services in general.
Goals and objectives of the course in terms of competences and skills	The goal of the course is to provide knowledge and skills of requirements identification, management and documentation, as well as to provide competence in decision-making with respect to the choice of appropriate requirements engineering methods and tools.
Learning outcomes	Students understand common and specific issues of requirements engineering and systems design. Students are able to acquire requirements without overstepping ethical principles of business, systems analysis, and information systems design. Students are able to use and evaluate requirements engineering methods and tools. Students are able to use and evaluate requirements management methods and tools. Students are able to design models of information logistics and information systems that conform to requirements.

	Students recognize, can evaluate and use different enterprise/business architecture frameworks and their models. Can design enterprise architecture.
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Code	DSP702
Course title	Research Methods in Business Informatics
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Grundspenķis Jānis
Academic staff	Strazdiņa Renāte
Volume of the course: parts and credits points	1 part, 2.0 Credit Points, 3.0 ECTS credits
Abstract	Modern society is being moved towards a knowledge-based model within which innovative solutions are created that can be applied to enhancing the economy. However, innovative solutions can be created through synthesizing existing knowledge. Scientific methods have been designed and are applied specifically for this purpose, therefore being familiar with such methods should be of benefit to students of business informatics program. The main subject of the course is the introduction to and practical application of scientific methods that can be used in computer science research. Given that some of the students may not be familiar with the concept, the course presents the types of scientific methods and possibilities of application thereof. Quantitative and qualitative scientific methods are considered, the research process and its various steps are analyzed, and the stages of drafting a scientific publication are set out. To ensure a more efficient learning process, theoretical studies are complemented with a realistic research project of a nominal volume; the results of this project shall be presented in a written report. A number of lectures are dedicated to honing technical writing skills that can be applied to drafting course and final papers.
Goals and objectives of the course in terms of competences and skills	Student after finishing the course knows research process, main activities, results, research methods appropriate in Business Informatics research process and research paper development techniques and standards Student can find the most appropriate methods for the particular research and do research according to the generally accepted methods, standards and techniques.
Learning outcomes	Know – research process, main activities, results. Know – research methods appropriate in Business Informatics research process. Know – research paper development techniques and standards. Can – find the most appropriate methods for the particular research. Can – do research according to the generally accepted methods, standards and techniques.

Code	DSP710
Course title	Software Applications in Education
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Kirikova Mārīte
Academic staff	Anohina-Naumeca Alla
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	The main attention of the course theoretical part is devoted to the relationship between goals and activities of the learning process and appropriate types of supporting software and necessary functionality of this software, as well as to design principles and evaluative and selective criteria of educational software applications. The practical part of the course is directed towards the review, comparison and use of available software applications.
Goals and objectives of the course in terms of competences and skills	The objective of the course is to provide knowledge and skills needed for the use and development of different educational software applications intended to support the learning and teaching process. At the end of the course students will be able to identify goals and activities of the learning process which can be supported by different educational software, as well as be able to evaluate and choose corresponding software solutions for specific learning

	situations and issues.
Learning outcomes	<p>Students will be able to classify, recognize and give examples of different ICT supported learning types.</p> <p>Students will be able to identify goals, issues and activities of the learning process which can be supported by the use of educational software applications.</p> <p>Students will be able to compare, evaluate and choose software solutions for specific learning situations and issues.</p> <p>Students will be able to apply specific development principles when designing educational software.</p> <p>Students will be able to use educational software applications of different types.</p>

Code	DSP705
Course title	Artificial Intelligence in Business
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Grundspenķis Jānis
Academic staff	Lavendelis Egons
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	Artificial intelligence includes rather new technologies that can be used to solve complex business problems in different domains. The information technology specialist must be able to select the most suitable artificial intelligence technologies for business problems. The main topic is their usage for practical business problem solving. Different programming approaches are reviewed to show origins of the agent oriented programming and differences from other approaches. Overview of various types of agents and their applications is given in the course. Intelligent mechanisms, like planning, knowledge representation, inference and machine learning are covered, too. Already developed agent projects are analysed illustrating what types of agents are suitable for what projects. Algorithms used in artificial intelligence and their implementations as well as the agent oriented software engineering process are covered in the practical part of the course.
Goals and objectives of the course in terms of competences and skills	<p>The goal of the course is to give understanding of the advanced artificial intelligence technologies and abilities to apply these technologies to solve various complex business problems.</p> <p>The main objectives of the course are the following:</p> <p>To acquire different programming approaches, especially the agent oriented programming.</p> <p>To study intelligent agents and multi-agent systems, their development and applications, as well as to be able to apply agents and multi-agent systems to solve various business problems.</p> <p>To study various artificial intelligence solutions and know their applicability.</p>
Learning outcomes	<p>Knows different programming approaches and possibilities to apply them.</p> <p>Knows and is able to apply the latest solutions of artificial intelligence.</p> <p>Knows the types of intelligent agents, their characteristics, is capable to choose suitable agents and apply them to solve problems of various domains.</p> <p>Knows agent interaction mechanisms and is capable to design the mechanisms for different applications.</p> <p>Understands intelligent mechanisms used in agents and is capable to choose the most suitable one(-s) for a specific system.</p> <p>Has a good knowledge about agent oriented software engineering process and is capable to carry out activities corresponding to the analysis and design phases.</p>

Code	DSP709
Course title	Master Thesis
Course status in the programme	Graduation Test
Responsible instructor	Kirikova Mārīte
Volume of the course: parts and credits points	1 part, 20.0 Credit Points, 30.0 ECTS credits
Abstract	The master thesis is author's original research, where methods, models, techniques and prototypes applicable for solving tasks in the field of business informatics are analytically or experimentally assessed and/or integrated and/or designed..

Goals and objectives of the course in terms of competences and skills	The purpose of the master thesis is to give students an opportunity to apply their knowledge and skills in the field of scientific research in order have firm grounding for post graduate studies; to further develop their competence in decision making, problem identification, analysis, and solving, as well as to promote creativity and sharpen professional discussion and presentation skills.
Learning outcomes	<p>Students are able to analyse, classify, and compare ideas expressed in scientific and professional sources pertaining to the tasks of their master thesis.</p> <p>Students will be able with scientific rigor to apply appropriate methods, models, tools, and technologies for solving the tasks of business informatics.</p> <p>Students will be able to identify and formulate research problems in the field of business informatics and make assumptions with respect to their causes.</p> <p>Students will be able to integrate acquired knowledge and propose solutions for identified problems.</p> <p>Students will be able to interpret proposed solutions and develop analysis if necessary.</p> <p>Students will be able to present and explain the results of their research and debate about them publically.</p>

Code	DLP700
Course title	e-Business Solutions
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Novickis Leonīds
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	The course concerns essential principles of e-business and their implementation by modern Internet technologies. The influence of Internet solutions to e-business development and different kinds of e-businesses are discussed. Main concepts of creating of corporate business portal based on Web technology are opened up. Students are introduced to the use of RFID, wearable computing, internet services and e-solutions software for managing and controlling business processes. Applications of e-solutions are illustrated by samples from several application domains (insurance, transport, logistics etc.).
Goals and objectives of the course in terms of competences and skills	The main goal of the course is to strengthen competence in the field of application of Internet based solutions for enhancing efficiency of business processes. To form basic skills in creating of web based corporative business portals, application of selected Internet solutions (RFID, Wearable computing) and e-solutions software in different domains.
Learning outcomes	<p>Be able to formulate how Internet technology influence the efficiency of business processes development and management. Be able to present and discuss advantages of the use of e-solutions.</p> <p>Be able to formulate the basic principles of creating of web based corporative business portal.</p> <p>Be able to develop models of business processes organisation and management using e-solutions software.</p> <p>Be able to apply e-solutions in selected application domans (logistics and transport, insurance, etc.)</p>

Code	DOP701
Course title	Portfolio Management Technologies
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Grabis Jānis
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	Development of new products and identification of growth directions is an important enterprise strategic planning problem. It also has to be balanced with current enterprise objectives, resources and competences. The course explores different solutions of this problem using business process modelling, multi-criteria decision-making methods and product and project feasibility analysis methods. The main attention is devoted to integration of portfolio management into the overall life-cycle of information systems development. Technological solutions used in evaluation of alternative projects and for integration with other information systems development tools are explored in laboratory work.
Goals and objectives of the course in terms of	The course objective is to learn project identification and project portfolio

competences and skills	management methods and technologies.
Learning outcomes	<p>Ability to determine project portfolio efficiency measures and to allocate resources to competing projects</p> <p>Ability to analyze project portfolio and to identify the most promising projects</p> <p>Ability to integrate portfolio management into enterprise information technology architecture</p> <p>Ability to design technological environment for portfolio management</p>

Code	DPI721
Course title	Business Analytics
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Sukovskis Uldis
Academic staff	<p>Zitmanis Zigmunds</p> <p>Grēviņš Jānis</p> <p>Strazdiņa Renāte</p>
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	<p>Companies are making decisions across all functional areas. The role of information technology specialists is to develop infrastructure to provide decision makers with precise information at the right time and the right place.</p> <p>First part of the course deals with the value chain and analyzes information sources of the main business processes. Accent will be put on the quality management and cost accounting.</p> <p>Second part of the course deals with business intelligence architectures and tools available for enterprise information utilization.</p> <p>Students will have to do a case study to analyze business processes of a particular company and develop metrics and specifications of business intelligence solution.</p>
Goals and objectives of the course in terms of competences and skills	<p>This course is aimed to introduce students to requirements of enterprise business analytics and alternatives available.</p> <p>Within the course students will analyze business processes to define the needs of business analytics and learn how to apply available technologies.</p>
Learning outcomes	<p>Students will understand basic business concepts and know how to identify business analytics requirements for the company</p> <p>Students will be able to apply business performance management methods and metrics</p> <p>Knowledge how business intelligence can increase a company's bottom line</p> <p>Students will know the main data analysis tools and techniques available</p>

Code	DPI704
Course title	Quality, Risk and Security Technologies
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Sukovskis Uldis
Academic staff	Strazdiņa Renāte
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	<p>A modern enterprise's operations are closely related to the application of information and communications technology. For the most part, enterprises cannot remain competitive and viable without resorting to ICT. However, selecting the most appropriate technologies for a specific company requires an understanding of ICT. Some of the most crucial prerequisites for successful deployment of ICT in an enterprise is the quality of technologies chosen, understanding of the risks associated with such technologies and security of the selected technologies. The main topic of the course is an overview of the existing quality, risk and security technologies from the following viewpoints: 1) Process; 2) Activities; 3) Standards; 4) Methods applied; and 5) Best practice examples. To ensure that the aim of the course is successfully attained, theoretical studies are complemented with practical deployment and analysis of the technologies discussed. During the practical part of the course, narratives of quality, risk and security management processes are created, existing methods and standards are applied to real-life enterprises' situation examples and existing technologies are applied in practice.</p>
Goals and objectives of the course in terms of	Upon completion of the study course the student can discuss and support his

competences and skills	/ her views on the basic principles, and limitations thereof, of IT quality, risk and security management; the student is aware of IT quality, risk and security management processes and applicable standards. The student can deploy appropriate tools to designing a quality and / or risk and / or security process in an enterprise (in a certain environment), perform a risk assessment and design improvements.
Learning outcomes	Can discuss and support his / her views on the basic principles, and limitations thereof, of IT quality, risk and security management; The student is aware of IT quality, risk and security management Can support his/her view on necessity of implementation of the IT quality, risk, and security management process and the most effective way depending on organization goals and structure. Can deploy appropriate tools to designing a quality and / or risk and / or security process in an enterprise (in a certain environment). Can perform a risk assessment and design improvements.

Code	DPI700
Course title	Storage Networking
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Alksnis Gundars
Volume of the course: parts and credits points	1 part, 2.0 Credit Points, 3.0 ECTS credits
Abstract	The course covers concepts, features, design and applications of storage area networking (SAN) including SAN management challenges, requirements, and solutions' advantages and disadvantages. Storage consolidation, management, virtualization, scalability, performance, backup and restore, and replication are explained from the relevance to business continuity and high-availability. Lectures present intermediate to expert-level knowledge of intelligent storage solutions with multiple transport options over long distances. The course also includes such topics as storage network architectures, Fibre Channel and other emerging technologies, and storage networking management applications and their market. Hands-on labs and projects are based on IBM Lotus Notes Domino and Workplace Services or alternative applications. After completing the course students can propose solutions to set up and run SANs.
Goals and objectives of the course in terms of competences and skills	The goal of the course is to have enough knowledge in storage area networking topics to be able to propose and implement solutions to support business continuity and high-availability, and discuss the relevance and business value of storage area networking both with business and IT professionals.
Learning outcomes	To explain storage networking aims and current restrictions. To explain current and emerging SAN concepts and compare their implementations. To be able to select the most proper technology solution for specific business problem and discuss it with both business and IT professionals. To be able to integrate multiple solutions to set up and run SANs.

Code	DPI722
Course title	E-services in Education and Science
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Sukovskis Uldis
Academic staff	Zitmanis Zigmunds Strazdiņa Renāte
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	First part of the course introduces students to e-services, by reviewing related organizational issues and technologies available, for instance, identity management, portal technologies, payment systems etc. Second part on the course looks at the education and science industry to analyze organizational, technical and economical aspects of e-service implementation.
Goals and objectives of the course in terms of competences and skills	The course objective is to acquaint students with technologies used to provide e-services. Tasks – to identify necessary e-services, by analyzing organization's main businesses and products and to review technical and organizational issues related to e-service implementation.

Learning outcomes	<p>Can define e-services to develop organization's products or increase efficiency.</p> <p>Knows how to set up a project team for e-service implementation and how to write an e-service description and solve issues related to the e-service maintenance</p> <p>Is able to define necessary infrastructure for e-service delivery, taking into account opportunities provided by outsourcing companies and social networks.</p> <p>Is able to analyze e-services used within the education and science industries and to transfer methods used in other industries.</p>
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Code	DST702
Course title	Mobile, Grid, and Ambient Networking
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Zagurskis Valerijs
Volume of the course: parts and credits points	1 part, 2.0 Credit Points, 3.0 ECTS credits
Abstract	The goal of the course is to give understanding about mobile, grid, and ambient networking (MGAN) for different business implementations (controlled processes). Various technologies and implementations of internet and intranet applications are discussed. Special attention is devoted to advanced innovative technologies and implementations (such as autonomous control, cognitive platforms, heterogeneous and cluster multilevel and mobile networks) and research and modelling techniques for architecture and infrastructure development. Basic topics on design methods and service oriented architecture are included in the course content. It includes also mobile, cognitive, and ambient network control and management techniques for business applications, which concern most popular methods and standards in this area. Students are introduced to mobile, ambient and cognitive network implementations.
Goals and objectives of the course in terms of competences and skills	To prepare specialists, who can implement, develop, and analyze mobile, grid, and ambient network technologies for real control and management processes.
Learning outcomes	<p>Ability to discuss the basic principles of MGAN, their main advantages and limitations, acquired knowledge of infrastructure elements and technology life cycles.</p> <p>Ability to discuss MGAN utilization (non utilization) necessity corresponding to particular industry (business) processes.</p> <p>Ability to choose and integrate known models, methods, and techniques of MGAN into industrial and business processes.</p> <p>Ability to monitor MGAN technology performance in controlled industrial processes.</p>

Code	RRI700
Course title	Networking Technologies in Education
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Slaidiņš Ilmārs
Volume of the course: parts and credits points	1 part, 2.0 Credit Points, 3.0 ECTS credits
Abstract	<p>Education organization Networks and Associations.</p> <p>Information, knowledge, skills and competence. Theories of learning, formal and informal learning, social learning, Learning 2_0, Open Educational Resources. Collaboration in the learning process and supporting technologies. Web 2_0 technologies and learning. Technologies for social networking. In practical tasks available web 2_0 sites and open source software for social networking, wiki, blog and other Web 2.0 applications will be used.</p>
Goals and objectives of the course in terms of competences and skills	The course aims to provide knowledge and skills in electronic networking technologies and their application in education. At the end of the course students will have knowledge on how web 2.0 and other electronic technologies could be used in education and will have skills to create collaboration network for learning needs using these technologies.
Learning outcomes	<p>Knowledge on application of Web 2.0 technologies in education, Open Learning Resources and their role in innovative business</p> <p>Skills in working with Web 2.0 technologies (social networking, wiki, blog)</p>

Code	DOP702
Course title	Customer Relationship Management and Social Network Technologies
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Grabis Jānis
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	Customer relationship management systems together with social networking enable reaching a large number of customers and potential customers as well as gathering and distributing information using electronic channels. The course explores typical characteristics of customer relationship management systems and social networking applications with emphasis on understanding dynamics interactions within networking systems. Specific features of different social networking technologies and their utilization in business process optimization are also reviewed.
Goals and objectives of the course in terms of competences and skills	To gain insights in dynamics of social networking and exploration of network dynamics in enterprise applications and business process automation.
Learning outcomes	Ability to automate high frequency business processes Analysis and interpretation of information propagation in social networks Integration of enterprise applications and social networking technologies Understanding the role of customer relationship management systems in business process optimization

Code	DOP700
Course title	Enterprise Information Technology Architecture, Applications and Integration
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Grabis Jānis
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	Commercially available enterprise information systems are often used in implementation and automation of enterprise business processes. The objective of the course is to master main principles of enterprise information systems, their deployment and modification. Main topics covered in the course are business process modeling, application of ERP, workflow and other enterprise systems in process automation, modification and deployment of enterprise information systems, integration of enterprise information systems and adoption service-oriented computing in enterprise systems. Technologies for the modification of enterprise systems are explored in laboratories.
Goals and objectives of the course in terms of competences and skills	To learn various alternatives of using enterprise applications for automation of business processes in the framework of overall enterprise information technology architecture
Learning outcomes	To know main functional capabilities of enterprise applications and their application areas. Ability to select the most appropriate solution for business process automation. To understand implementation life-cycle of enterprise applications and main implementation activities. Ability to document implementation of enterprise applications. Ability to configure enterprise applications and to modify user interface, reports and elements of enterprise portal. Ability to orchestrate executable business processes and knowledge of integration standards.

Code	PBM415
Course title	Business Law
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Grēviņš Jānis
Academic staff	Azanda Ieva
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	This course provides an introduction to the basic legal principles governing business transactions in market economics and how these principles are being adapted and implemented in Latvian context. Topics covered include contracts, the law on business organizations, including

	agencies, partnerships and corporations; debtor-creditor relations such as credit and secured transactions and bankruptcy and commercial paper, including negotiable instruments and documents of title. In addition the course will cover the emerging business of Law in Latvia as this per
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Code	PBM423
Course title	Business Ethics
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Grēviņš Jānis
Academic staff	Zakaričs Atis
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	The course is designed to provide a new insight into business related ethical problems, to reveal the modern approach to solutions of the common problems arising in business relations.

Code	PBM409
Course title	Entrepreneurship
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Grēviņš Jānis
Academic staff	Bergs Jānis
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	This course focuses on factors related to the initiation and development of new business ventures, in contrast to the management of large, ongoing enterprises. Topics covered include personal entrepreneurial potential, career considerations, start-up planning, sources of venture ideas, entry modes, acquisition strategies, managing for survival. Primary emphasis is on the process of starting a new venture. Entrepreneurs will meet with the class to discuss their own experiences.

Code	PBM430
Course title	Business Communication Skills
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Mathers Gregory Scott
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	The course will provide students the opportunity to study in detail the theoretical and practical approaches to business and management communication. The course will teach to analyse audiences, develop arguments, and test one's ability to persuade in writing and speaking. The specific learning objectives in this course are: (1) To develop a practical knowledge of the theories and principles of business and management communication. (2) To develop tools that aid communication in a wide range of scenarios (writing, speaking, nonverbal communication, presentation materials). (3) To strengthen your communication skills through group and individual exercises in different communication scenarios, as well applied to different forms of writing (including sales letters, reports, memos, etc.) and to verbal communication.

Code	PBM703
Course title	Information Technology and Strategy
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Jānis Grēviņš
Volume of the course: parts and credits points	1 part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	Course explores information technology strategies of an organization from the perspective of a Chief Information Officer and it provides conceptual frameworks for the development and deployment of information technology strategies. Course covers technology concepts and trends, underlying current and future developments in information technology, and fundamental principles for the effective development of computer-based information systems.
Goals and objectives of the course in terms of competences and skills	There are several objectives of this course. Students will gain a fundamental understanding of the role and responsibility of a Chief Information/Chief Technology Officer and the CIO's role in guiding the development and implementation of

	enterprise wide Information Technology strategies. In addition the students will also gain an understanding of how Information Technology units fit into the strategic and management operations of complex organizations.
Learning outcomes	<p>Able to define The Role and Responsibilities of the Chief Information Officer in Information Technology and Strategy.</p> <p>Able to design Governance and Organizational structure to Support Information Technology Strategy Development and Implementation.</p> <p>Able to use the project management tools in Organizational IT Portfolio Management and Application development.</p> <p>Able to perform Assessment and Evaluation of Organizational Information Technology and to develop proposals for Organizational Development and Management of Information Technology.</p> <p>Able to plan IT Project Risk, Enterprise Wide Security and develop proposal for Organizational IT Risk Management.</p>

Code	HPS401
Course title	Pedagogical Process. Basics
Course status in the programme	Compulsory/Courses of Limited Choice
Responsible instructor	Lanka Anita
Volume of the course: parts and credits points	I part, 4.0 Credit Points, 6.0 ECTS credits
Abstract	The Essence of Pedagogical Process. The Principles of Organizing Pedagogical Processes. The Teaching and Learning Environment. The Components of Pedagogical Process.
Goals and objectives of the course in terms of competences and skills	A main goal of this course is to provide students with necessary knowledge and skills to organize the pedagogical process within organization. The main competence areas developed by this course are : competence for planning and managing pedagogical process; cooperation and interaction competence; competence to set the learners' oriented pedagogical environment.
Learning outcomes	<p>Skills to compare and assess different pedagogical systems, to characterize pedagogical values.</p> <p>Understand the specific and principles of adult education.</p> <p>Have a holistic knowledge to illustrate the system and interrelated components of pedagogical process.</p> <p>Is able to characterize strategies for adult education.</p> <p>Is able to participate in argumentative discussion/debate on quality of knowledge, different conceptualization of competence.</p> <p>Skill to design pedagogical process. Is able diagnose learning needs and create professional development module./ To develop personal learning plan.</p>

List of the study program's courses and responsible instructors

Code	Course	ECTS	Responsible instructor
DSP706	Business Process Management and Engineering	6 ECTS	Marite Kirikova
DLP700	e-Business Solutions	6 ECTS	Leonids Novickis
DOP701	Portfolio Management Technologies	6 ECTS	Janis Grabis
DSP707	Service Science, Management and Engineering	6 ECTS	Marite Kirikova
DSP708	Advanced Data Technologies	6 ECTS	Janis Eiduks
DPI721	Business Analytics	6 ECTS	Uldis Sukovskis
DPI704	Quality, Risk and Security Technologies	6 ECTS	Uldis Sukovskis
DSP703	Systems Theory	6 ECTS	Janis Grundspenkis
DSP701	Knowledge Management Systems	6 ECTS	Marite Kirikova
DSP700	Enterprise Architecture and Requirements Engineering	6 ECTS	Marite Kirikova
DSP702	Research Methods for Business Informatics	3 ECTS	Janis Grundspenkis
DST702	Mobile, Grid, and Ambient Networking	3 ECTS	Zagurskis Valerijs
DPI700	Storage Networking	3 ECTS	Gundars Alksnis
RRI700	Networking Technologies in Education	3 ECTS	Ilmars Slaidins
DOP702	Customer Relationship Management and Social Network Technologies	6 ECTS	Janis Grabis
DSP710	Software Applications in Education	6 ECTS	Marite Kirikova
DSP705	Artificial Intelligence in Business	6 ECTS	Janis Grundspenkis
PBM703	Information Technology and Strategy	6 ECTS	Janis Grevins
DOP700	Enterprise Information Technology Architecture, Applications, and Integration	6 ECTS	Janis Grabis
DPI722	e-Services in Education and Science	6 ECTS	Uldis Sukovskis
PBM415	Business Law	6 ECTS	Janis Grevins
PBM423	Business Ethics	6 ECTS	Janis Grevins
PBM409	Entrepreneurship	6 ECTS	Janis Grevins
PBM430	Business Communication Skills	6 ECTS	Mathers Gregory Scott
HPS401	Basics of Pedagogical Process	6 ECTS	Anita Lanka
DSP709	Master Thesis	30 ECTS	Marite Kirikova

List of the study program's academic personnel

<i>Name, surname</i>	<i>Position</i>	<i>Education</i>	<i>Degree</i>	<i>Elected/ taken on time</i>	<i>Study courses</i>
Ainars Auzins	resercher	higher	M.sc.ing.	basic employment	Advanced Data Technologies
Alla Anohina-Naumeca	researcher, docent	higher	Dr.sc.ing.	elected, elected	Software Applications in Education
Anita Lanka	professor	higher	Dr.paed.	elected	Basics of Pedagogical Process
Atis Zakatistovs	professor RBS	higher	Dr.phil.	-	Business Ethics
Dace Apsvalka	resercher	higher	Mg.sc.ing.	elected	Knowledge Management Systems
Egons Lavendelis	resercher	higher	Dr.sc.ing.	basic employment	Artificial Intelligence in Business
Greg Mathers	lecturer RBS	higher	Mg.oec.	-	Business Communication Skills
Gundars Alksnis	docent	higher	Dr.sc.ing.	elected	Service Science, Management and Engineering; Storage Networking
Ieva Azanda	lecturer RBS	higher	Ph.D.cand.	-	Business Law
Ilmars Slaidins	professor	higher	Dr.sc.ing.	elected	Networking Technologies in Education
Ilze Birzniece	resercher	higher	M.sc.ing.	elected	Business Analytics
James Bowen	guest lecturer RBS	higher	Ph.D.	-	e-Business Solutions
Janis Bergs	lecturer RBS	higher	Mg.oec.	-	Entrepreneurship
Janis Eiduks	assoc. professor	higher	Dr.sc.ing.	elected	Advanced Data Technologies
Janis Grabis	professor	higher	Dr.sc.ing.	elected	Portfolio Management Technologies; Customer Relationship Management and Social Network Technologies; Enterprise Information Technology Architecture, Applications, and Integration
Janis Grevins	director of the Riga Business school	higher	Dr.oec.	elected	Business Law; Business Analytics
Janis Grundspenkis	professor	higher	Dr.habil.sc.ing.	elected	Systems Theory
Kaspars Osis	resercher	higher	M.sc.comp.	elected	Knowledge Management

<i>Name, surname</i>	<i>Position</i>	<i>Education</i>	<i>Degree</i>	<i>Elected/ taken on time</i>	<i>Study courses</i>
					Systems
Larisa Survilo	systems analyst	higher	M.sc.ing.	basic employment	Customer Relationship Management and Social Network Technologies
Leonids Novickis	professor	higher	Dr.habil.sc.ing.	elected	e-Business Solutions
Ligita Businska	assistent of the scientific work	higher	Mg.sc.ing.	elected	Business Process Management and Engineering
Ludmila Penicina	assistent of the scientific work, systems analyst	higher	Mg.sc.ing.	elected, agreement	Business Process Management and Engineering
Marite Kirikova	profesore	higher	Dr.sc.ing.	elected	Business Process Management and Engineering; Service Science, Management and Engineering; Enterprise Architecture and Requirements Engineering; Knowledge Management Systems
Peteris Rudzajs	assistent of the scientific work	higher	Mg.sc.ing.	elected	Business Analytics
Renate Strazdina	leading resercher	higher	Dr.sc.ing.	elected	Quality, Risk and Security Technologies; Research Methods for Business Informatics; Portfolio Management Technologies
Uldis Sukovskis	vice rector of the study process/ professor	higher	Dr.sc.ing.	elected /elected	Business Analytics; e-Services in Education and Science; Quality, Risk and Security Technologies
Valerijs Zagurskis	professor	higher	Dr.habil.comp.	elected	Mobile, Grid, and Ambient Networking
Voldemars Innus	guest lecturer RBS	higher	Dr.sc.ing.	-	Information Technology and Strategy

<i>Name, surname</i>	<i>Position</i>	<i>Education</i>	<i>Degree</i>	<i>Elected/ taken on time</i>	<i>Study courses</i>
Zigmunds Zitmanis	RTU administrative director	higher	Mg.oec.	basic employment	Business Analytics; e-Services in Education and Science

Summary of the academical personnel's scientific activities on 2010/2011 study year

RESEARCH RESULTS OF THE ACADEMIC STAFF – MEMBERSHIPS, SCIENTIFIC EVENTS, 2010/2011

Reports in Latvian conferences:

1. Lavendelis E., Grundspenkis J. Multi-Agent Based Intelligent Tutoring System Source Code Generation Using MASITS Tool. Scientific Journal of Riga Technical University 2010
2. Birzniece I. From Inductive Learning towards Interactive Inductive Learning // Scientific Journal of Riga Technical University. Computer Sciences. - Applied Computer Systems, 2010, pp. 106-112. Included in VERSITA data base.
3. Rudzājs P., Peņicina L., Kirikova M. A pilot-architecture of an information system for monitoring knowledge requirements in organisational networks, RTU Conference of Innovation and New Technologies, LATVIA, Rīga, 2010 (poster)
4. Rudzājs P., Kirikova M., Birzniece I. Development of linkage technology prototype for business process and normative documents bond, RTU Conference of Innovation and New Technologies, LATVIA, Rīga, 2010 (poster)

Reports in international conferences:

1. E. Lavendelis. MIPITS - An Agent based Intelligent Tutoring System. 2nd International Conference on Agents and Artificial Intelligence (ICAART 2010), Valencia, Spain, 2010.
2. Strazdiņa R., Kirikova M., Peņicina L., Rudzājs P. Knowledge Requirements Monitoring System: Advantages for Industry and University. The Second International Conference on Information, Process, and Knowledge Management eKNOW 2010, Netherlands, Saint Maarten, February, 2010.
3. Rudzājs P., Kirikova M. Enhancing Knowledge Flow by Mediated Mapping between Conceptual Structures, Third International Conference on Information, Process, and Knowledge Management (eKNOW2011), France, Gosier, 2011.
4. Birzniece I., Rudzājs P. Machine learning based study course comparison, IADIS Conference on Intelligent Systems and Agents 2011 (ISA2011), Italy, Rome, 2011.
5. Rudzājs P., Kirikova M. Mediated competency comparison between job descriptions and university courses, RTU 51st International Scientific Conference, LATVIA, Riga, 2010.
6. Businska, L., Supulniece, I., Kirikova, M. On data, information, and knowledge representation in business process models. The 20th International Conference on Information Systems Development (ISD 2011), Edinburgh, Scotland, August 24-26, 2011
7. Anohina-Naumeca, A., Milasevicha, S. Studying Possibilities to Use Several Experts' Maps in the Concept Map Based Knowledge Assessment System. Proceedings of the 12th International Conference on Computer Systems and Technologies and Workshop for PhD Students in Computing on International Conference on Computer Systems and Technologies, ACM International Conference Proceeding Series, 2011
8. Anohina-Naumeca, A., Strautmane, M., Grundspenkis, J. Development of the Scoring Mechanism for the Concept Map Based Intelligent Knowledge Assessment System. Proceedings of the 11th International Conference on Computer Systems and Technologies and Workshop for PhD Students in Computing on International Conference on Computer Systems and Technologies, ACM International Conference Proceeding Series, Vol. 471, ACM Press, 2010, pp. 376-381.
9. Lukashenko, R., Anohina-Naumeca, A. Development of the Adaptation Mechanism for the Intelligent Knowledge Assessment System Based on the Student Model. Proceedings of EDULEARN'10 Conference, July 5-7, 2010, Barcelona, Spain, pp. 005149-005149.

ACADEMIC STAFF'S RESEARCH RESULTS – SCIENTIFIC PUBLICATIONS

Articles in conference proceedings:

1. Anohina-Naumeca A., Grundspenķis J. Evaluating Students' Concept Maps in the Concept Map Based Intelligent Knowledge Assessment System // Advances in Databases and Information Systems. Associated Workshops and Doctoral Consortium of the 13th East European Conference, ADBIS 2009: Revised Selected Papers, Latvia, Rīga, 7-10 September, 2010. - pp 8-15.
2. Anohina-Naumeca, A., Strautmane, M., Grundspenķis, J. Development of the Scoring Mechanism for the Concept Map Based Intelligent Knowledge Assessment System. Proceedings of the 11th International Conference on Computer Systems and Technologies and Workshop for PhD Students in Computing on International Conference on Computer Systems and Technologies, ACM International Conference Proceeding Series, Vol. 471, ACM Press, 2010, pp. 376-381.
3. Lavendelis E., Grundspenķis J. MIPITS - An Agent based Intelligent Tutoring System // Proc. of 2nd Int. Conf. on Agents and Artificial Intelligence (ICAART 2010) Vol. 2, Spain, Valencia, 22-24. January, 2010. – pp. 5-13. lpp
4. Osis K., Grundspenķis J. Agent and Mobile Technologies and Their Usage in Development of Learning Environment Supportive System // Proc. of the Int. Conf. "Advances in Visualization, Imaging and Simulation", Portugal, Faro, 3-5. November, 2010. – pp. 58-63.
5. Strazdina R., Kirikova M., Penicina L., Rudzajs P. Knowledge Requirements Monitoring System: Advantages for Industry and University // Proc. of the Second Int. Conf. on Information, Process, and Knowledge Management eKNOW 2010, The Netherlands, Saint Maarten, 10.-16. February, 2010. IEEE Computer Society Washington, DC, USA, – pp. 120.-125.
6. Strazdina R., Kirikova M., Rudzajs P. Knowledge Integration Points in Contemporary Business Informatics // Proc. of the 9th Int. Conf. on Perspectives in Business Informatics Research (BIR 2010), Rostock, Germany, September 29–October 1, 2010, Springer, pp. 33-42.
7. M.Vanags, A.Nikitenko, M.Ekmanis, I.Andersone, I.Birzniece, G.Kulikovskis „Service oriented mine hunting classroom simulation system” proceedings of the 4th International scientific conference on Applied information and communication technologies, pp. 95. – 101, Jelgava, Latvia, 2010.
8. Rudzājs P., Kirikova M., Strazdiņa R., Sukovskis U. Learning outcomes in the mirror of qualification frameworks // The 3rd International Conference: Institutional Strategic Quality Management - ISQM2011, Rumānija, Sibiu, July 14-16, 2011. – pp. 1-8.
9. Rudzājs P., Kirikova M. Enhancing Knowledge Flow by Mediated Mapping between Conceptual tructures // Third International Conference on Information, Process, and Knowledge Management, France, Gosier, February 23-28, 2011. – pp. 36-41.
10. Rudzājs P., Kirikova M., Strazdiņa R., Sukovskis U. Towards Managing Learning Outcomes in the Jungle of Qualification Standards // EQANIE-Conference: Learning Outcomes and Quality Management in Informatics Education, Austrija, Vienna, February 17-18, 2011. – pp. 1-7.
11. Rudzājs P., Bukša I. Business Process and Regulations: Approach to Linkage and Change Management // 10th International Conference on Perspectives in Business Informatics Research, Latvija, Riga, October 6-8, 2011. – pp. 1-15.
12. Rudzājs P. Education offer/demand compliance monitoring approach // 10th International Conference on Perspectives in Business Informatics Research, BIR2011, Doctoral Consortium, Latvia, Rīga, 6. October, 2011. - pp 1-10.

13. Kirikova M. Domain Modeling Approaches in IS Engineering. In Osis J., Asnina E. (eds.) *Model-Driven Domain Analysis and Software Development: Architectures and Functions*, 2010, IGI Global, pp. 388-406. ISBN 9781616928742.
14. Kirikova M., Businska L., Finke A. Towards Agile ABC. In *Proceedings of the 9th International Conference on Perspectives in Business Informatics Research (BIR 2010)*, Rostock, Germany, September 29–October 1, 2010, pp. 9-16.
15. Bērziša S., Grabis J. Knowledge Reuse in Configuration of Project Management Information Systems: A Change Management Case Study // *Proceedings of the 15th IEEE International Conference on Intelligent Engineering Systems 2011*, Slovakia, Poprad, 23.-25. June, 2011. - pp 51-56.
16. Bērziša S., Grabis J. Combining Project Requirements and Knowledge in Configuration of Project Management Information Systems // *Second Proceedings: Short Papers, Doctoral Symposium and workshops of the 12-th International Conference of Product Focused Software Development and Process Improvement (PROFES 2011)* 20-22 June 2011, Italy, Torre Canne, 20.-22. June, 2011. - pp 89-95.
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18. Grabis J., Bonders M., Kampars J. Combining Functional and Nonfunctional Attributes for Cost Driven Web Service Selection *Frontiers in Artificial Intelligence and Applications // Databases and Information Systems: Selected Papers from the Ninth International Baltic Conference, DB&IS 2010*, 6. - Ios Pr Inc, 2011. – pp. 227.-239.
19. Grabis J., Chandra C. Process Simulation Environment for Case Studies // *Proceedings of the 2010 Winter Simulation Conference*, United States of America, Baltimora, December 5-8, 2010. - pp 317-326.
20. Grabis J., Folkbergs Ģ. Integration of Decision-Making Components into ERP Systems // *Proceedings of the 9th International Conference on Perspectives in Business Informatics Research*, Germany, Rostock, 6.-8. October, 2010. - pp 43-51.
21. Bonders M., Grabis J., Kampars J. Web Service Selection: Beyond Quality of Service // *DB&IS 2010*, Latvia, Rīga, 5.-7. July, 2010. - pp 125-137.
22. Cikovskis L., Vdovins S., Slaidiņš I. Multipath Routing with Adaptive Carrier Sense for Video Applications in Wireless Ad-hoc Networks // *Electronics and Electrical Engineering*, 2011. – No. 6(112), Lithuania, Kaunas, May 17-19, 2011. – pp. 37.-42.
23. Belmanis O., Slaidiņš I. BalticGrid - a Step Towards EGI // *CGW Grid Workshop Proceedings*, Poland, Krakova, 26.-28. October, 2010. - pp 50-56.
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25. Lesovskis A., Novickis L. Semantic Wiki-Based Collaborative e-Learning System // *Proceedings of Annual International Conference "VIRTUAL AND AUGMENTED REALITY IN EDUCATION" (VARE 2011)*, Latvia, Valmiera, March 18, 2011. - pp 125-129.
26. Novickis L., Mitasiunas A., Rikure T., Jurenoks A. Promotion of e-Learning Solutions via Information Technology Transfer Concept and Baltic Regional Network // *Proceedings of Annual International Conference "VIRTUAL AND AUGMENTED REALITY IN EDUCATION" (VARE 2011)*, Latvia, Valmiera, March 18, 2011. - pp 71-80.

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28. Lukašenko R., Grundspenķis J. Intelligent Knowledge Assessment Tool // Proceedings of the IADIS International Conference E-Learning 2011 Vol.1, Italy, Rome, 20.-23. July, 2011. - pp 369-377.
29. Finke, A., Businska B. Technology for light-weight ABC in SME // The 17th International Conference on Information and Software Technologies, Lithuania, Kaunas, 27-29 April, 2011, pp.149-156
30. Birzniece I. Interactive Inductive Learning System // Frontiers of AI and Applications. Vol 224. 2011. Selected Papers of Baltic DB&IS 2010 , Latvia, Riga, July 5-7, 2010. IOS Press, - 380.-393. lpp.
31. Birzniece I. Interactive Inductive Learning Based Classification System // Proceedings of the IADIS International Conference Intelligent Systems and Agents 2011, Italy, Rome, July 24-26, 2011. – pp. 112.-116.
32. Birzniece I., Rudzājs P. Machine Learning Based Study Course Comparison // Proceedings of the IADIS International Conference on Intelligent Systems and Agents 2011 (ISA 2011), Italy, Rome, 24.-26. jūlijs, 2011. – pp. 107.-111.
33. Birzniece I. Interactive Inductive Learning Based Study Course Comparison // Proceedings of the Red-Conference: Rethinking Education in the Knowledge Society, Switzerland, Askona, March 7-10, 2011. pp. 339. – 347.
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35. Birzniece I. Interactive Inductive Learning System: The Proposal // Proceedings of the Ninth International Baltic Conference Baltic DB&IS 2010, Latvia, Riga, July 5-7, 2010. – pp. 245.-260.
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37. Birzniece I. Artificial Intelligence in Knowledge Management: Overview and Trends // 10th International Conference on Perspectives in Business Informatics Research, Latvia, Riga, October 6-8, 2011.
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1. Kaugers V., Sukovskis U. Secure Software Development Possibilities in Context of Model-Driven Archtiecture // Proceedings of the RTU 51st Internaciona Scientific Conference, Latvia, Riga, April 29, 2010.

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1. Birzniece I. From Inductive Learning towards Interactive Inductive Learning // Scientific Scientific Journal of RTU. S. 5., Computer science. – Vol. 43. (2010), pp. 1.-8.

2. Grundspenķis J., Burovs G. Information Technologies for Creating Algorithms and Software for Flight Tests of Aircraft Pre-Production Designs // RTU Scientific Journal of RTU. S. 5., Computer science. – Vol. 43. (2010), pp. 122.-130.
3. Lavendelis E., Grundspenķis J. Multi-Agent Based Intelligent Tutoring System Source Code Generation Using MASITS Tool // Scientific Journal of RTU. S. 5., Computer science. – Vol. 43. (2010), pp. 27.-36.
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6. Peņicina L. Towards the Mapping of Multidimensional BPMN Models to Process Definition Standards // Scientific Journal of RTU. S. 5., Computer science. – Vol. 43. (2010), pp. 76.-83.
7. Rudzājs P., Peņicina L., Kirikova M., Strazdiņa R. Towards Narrowing a Conceptual Gap between IT Industry and University // Scientific Journal of RTU. S. 5., Computer science. – Vol. 43. (2010), pp. 9.-15.
8. Anohina-Naumeca, A., Grundspenķis, J., Lavendelis, J., Šitikovs, V., Vinogradova, V. Modularizācijas loma studiju programmas "Datorsistēmas" pilnveidošanā. RTU Lietišķo datorsistēmu institūta rakstu krājums "Izglītības kvalitāte", RTU, Rīga, 2010, pp.13-22. (in latvian)
9. Rudzājs P., Kirikova M. Mediated Competency Comparison between Job Descriptions and University Courses // Scientific Journal of RTU. S. 5., Computer science – Vol 44. (2011), pp 1-8.
10. Taranovs R., Vilde K., Erins A., Zagurskis V. Main Quality Limitations for Based on Local Network Videoconferencing // Scientific Journal of RTU. S. 5., Computer science – Vol 42. (2010), pp 38-44.
11. Grundspenķis J. Usage Experience and Student Feedback Driven Extension of Functionality of Concept Map Based Intelligent Knowledge Assessment System // Communication & Cognition. – Vol. 43 (2010), pp. 1-20.
12. Rudzājs P., Kirikova M. Mediated Competency Comparison between Job Descriptions and University Courses. In Scientific Proceedings of Riga Technical University, Computer Science, S. 5, Vol. 44, 2011, pp. 1-8.
13. Lukashenko, R., Anohina-Naumeca, A., Vilkelis, M., Grundspenķis, J. Feedback in the Concept Map Based Intelligent Knowledge Assessment System. Scientific Journal of Riga Technical University „Computer Science. Applied Computer Systems”, Vol.43, 5th series, RTU Publishing, Riga, 2010, pp.17-26.
14. Anohina-Naumeca, A., Grundspenķis, J., Strautmane, M. The Concept Map Based Assessment System: Functional Capabilities, Evolution, and Experimental Results. International Journal of Continuing Engineering Education and Life-Long Learning, Vol. 21, No. 4, 2011, pp.308-327.
15. Анохина-Наумец, А., Лукашенко, Р. Интеллектуальная система оценивания знаний: модель студента и методика экспериментальной проверки алгоритма адаптации. Образовательные технологии и общество, том 14, номер 2, 2011, с.346-362 (in Russian)
16. Lavendelis E., Grundspenķis J. MASITS Methodology Supported Development of Agent Based Intelligent Tutoring System MIPITS // Communications in Computer and Information Science. - 129 (3). (2011) pp 119-132.

17. Birzniece I., Kirikova M. Interactive Inductive Learning: Application in Domain of Education // Scientific Journal of Riga Technical University. Computer Sciences. - Applied Computer Systems. (2011), pp. 1.-8. (accepted for publication)

Publications on other scientific editions:

1. Zeltmate I., Kirikova M., Grundspenkis J. Prototype for the Knowledge Representation Supporting Inter-Institutional Knowledge Flow Analysis. In Spector J. M., Ifenthaler D., Isaias P., Kinshuk and Demetrios Sampson (eds.) Learning and Instruction in the Digital Age, Springer: New York, 2010, – pp. 87-99.
2. Anohina-Naumeca, A., Grundspenkis, J. Evaluating Students' Concept Maps in the Concept Map Based Intelligent Knowledge Assessment System. Lectures Notes in Computer Science, Vol. 5968, Advances in Databases and Information Systems (J.Grundspenkis, M.Kirikova, et all, eds.), Germany: Springer, 2010, pp.8-15.
3. Rikure T., Novickis L. Building a Learner Psychophysiological Model Based Adaptive e-Learning Systems: A General Framework and its Implementation // Lecture Notes in Computer Science. - 5968 Springer. (2010) pp 31-38.
4. Slaidiņš I., Belmanis O. Final Report on Policy and Standards Progress and Implementation // Baltic Grid II Deliverables. - Baltic Grid Consortium, 2010. - pp 1-15.
5. Kaugers V., Sukovskis U. Model-Driven Secure System Development Framework // Database and Information Systems: Doctoral Consortium. - University of Latvia, 2010. - pp 43-52.
6. Grundspenkis J. Concept Map Based Intelligent Knowledge Assessment System: Experience of Development and Practical Use // Multiple Perspectives on Problem Solving and Learning in the Digital Age. Springer, 2011. - pp 179-198.
7. Grundspenkis, J., Mislevics, A. Intelligent Agents for Business Process Management Systems. Infonomics for Distributed Business and Decision-Making Environments: Creating Information System Ecology (M. Pankowska, Ed.). IGI Global, 2010, pp. 97-131.

Monographies/edited volumes

1. Fokiene A., Duvekot R., Gross M., Lepanjuuri A., Keurulainen H., Gudzuka S., Baldiņš A., Gudaityte J., Lanka A., Stasiūnaitiene E., Šlentneriene V. Assessment of Prior Learning in Vocational Teacher Education. - Tallina: Printing House: Baltic Print & Banners, 2010. - 105 p.
2. Lanka A., Gudzuka S., Baldiņš A., Fokiene A., Stasiūnaitiene E. Assessment of Prior Learning Achievements in Vocational Teacher Education. - Riga: RTU Printing House, 2010. - 48 p.
3. Lanka A., Baldiņš A., Gudzuka S., Fokiene A., Stasiūnaitiene E. Iepriekšējā pieredzē gūto zināšanu un prasmju novērtēšana profesionālās izglītības skolotāju izglītībā. Rokasgrāmata kandidātiem. - Rīga: RTU tipogrāfija, 2010. - 48 lpp. (in Latvian)
4. Barzdins J., Kirikova M. (Eds.) Databases and Information Systems. In: Proceedings of the 9th International Conference Baltic DB&IS 2010, Riga, Latvia, July 5-7, University of Latvia Press, 2010, ISBN 978-1-60750-687-4, pp. 1-452
5. Advances in Databases and Information Systems. Grundspenkis J., Kirikova M., Manolopoulos Y., Novickis L. (Eds.), Associated Workshops and Doctoral Consortium of the 13th East European Conference (ADBIS 2009), LNCS 5968, Riga, Latvia, September 7-10, 2009, 1st Edition, Springer, 2010, ISBN: 978-3-642-12081-7, 258p.
6. Advances in Databases and Information Systems: Local Proceedings of 13th East-European Conference (ADBIS 2009). Grundspenkis J., Kirikova M., Manolopoulos Y., Morzy T.,

Novickis L., and Vossen G.(Eds.), Riga, Latvia, September 7-10, JUMI Publishing House Ltd., 2009, ISBN 978-9984-30-163-1, 495p.

ACADEMIC STAFF'S INVOLVEMENT IN RESEARCH PROJECTS AND THEIR MANAGEMENT

EU and international programs:

<i>Project's number</i>	<i>Title</i>	<i>Project leader</i>	<i>Team</i>	<i>Dates</i>
142399-LLP-1-2008-1-BG-ERASMUS-ENW SOCRATES	ETN TRICE - Erasmus European Thematic Network for Teaching, Research, Innovation in Computing Education"	Coordinator: J.Grundspenkis	A.Anohina-Naumeca	10.2008-09.2011
IZM10-0501/10	„Services for curricula comparison” (Program's "OSMOZE" project organized by LR Ministry of Education and Science and France Foreign Affairs)	Prof. J.Grundspenkis	A.Anohina-Naumeca, L.Survilo, M.Kirikova, P.Rudzajs	01.01.2010-01.12.2011
Baltic sea program's INTERREG project BONITA	Baltic organization and network of innovation transfer associations	L.Novickis		2008. - 2012.
Cooperation project with German Federal Ministry of Education and Research	German-Baltic Competence Network for AR/VR supported development of innovative products and services	L.Novickis		01.01.2011-31.12.2011
ERAF project (2010/0258/2DP/2.1.1.1.0/10APiA/ViAA/005)	Development of technology for multiagent robotic intelligent system	J.Grundspenkis	E.Lavendelis	01.12.2010 - 30.11.2013
Interreg Estonia's-Latvia's sub-program (ICT DCNet/EU34537)	Unified ICT Network for Innovation	J.Grundspenkis	A.Anohina-Naumeca	01.10.2010 - 30.09.2012
ERAF project (2011/0008/2DP/2.1.1.1.0/10/APIA/VIAA/018)	Development of intelligent agent, modelling, and web Technologies based distributed insurance software	L. Novickis	J.Grundspenkis E. Lavendelis	01.04.2011–30.12.2013
RTU project Nr. S 1563 (agreement Nr. 01000-10/2011/07)	The Baltic-German University Liaison Office project „Knowledge reuse and sharing in fractal and networked enterprises”	M.Kirikova	I.Birzniece L.Businska P.Rudzajs	01.03.2011. 15.12.2011

Latvian Council of Science projects:

<i>Project's number</i>	<i>Title</i>	<i>Project leader</i>	<i>Team</i>	<i>Dates</i>
Nr. 09.1582	Methods and Models Based on Distributed Artificial Intelligence and Web Technologies for Development of Intelligent Applied Software and Computer System Architecture	J.Grundspenkis	L.Novickis, M.Kirikova, U. Sukovskis, A. Anohina-Naumeca, R. Strazdina, E. Lavendelis L.Businska, D. Apsvalka, L. Survilo, L. Penicina, I. Birzniece	01.01.2011- 31.12.2011

Projects ordered by Ministry:

<i>Project's number</i>	<i>Title</i>	<i>Project leader</i>	<i>Team</i>	<i>Dates</i>
National Research Program	New information technologies based on ontologies and transformation	RTU sub-project's leader J.Grundspenkis	J.Grundspenkis, A.Anohina-Naumeca, E.Lavendelis, M.Kirikova, L.Novickis	01/02/2011- 30/11/2011

RTU scientific projects:

<i>Project's number</i>	<i>Title</i>	<i>Project leader</i>	<i>Team</i>	<i>Dates</i>
ZP 2009/16	Development of Learning objects repository and intelligent tutoring system for intellectual learning support	doc. A.Nikitenko	E. Lavendelis G. Alksnis	01.10.2009.- 15.09.2010.
Ministry's of Education and Science and RTU research project FLPP-2010/6	Adaptation of Activity Based Costing for IT based business process management in SMEs and microenterprises	prof. M.Kirikova	J. Grabis, R.Strazdina, U.Sukovskis, L.Businska	12.04.2010.- 31.12.2010.
ZP-2009/33	Development of the algorithm for generating concept maps from unstructured text in the knowledge assessment system with the student modelling component	prof. J.Grundspenkis	A. Anohina-Naumeca	01.10.2009- 15.09.2010.
FLPP-2010/19	Development of a mathematical model for the	prof. J.Grundspenkis	A.Anohina-Naumeca,	01.04.2010- 31.12.2010

	determination of concept map complexity and degree of task difficulty and its implementation adapting to characteristics of a student model		A.Lanka, L.Novickis	
ZP-2010/6	Computer-based system for support of expert concept map construction work	J.Grundspenkis	A.Anohina-Naumeca, L.Novickis	01.10.2010- 15.09.2011
FLPP-2011/8	Development of ontology-based methods and algorithms for comparison and merging of concept maps of different related study courses	J.Grundspenkis	M.Strautmane, A.Anohina-Naumeca	01.02.2011- 31.12.2011
ZP-2010/8	Development of student model based intelligent tutoring system's prototype	E. Lavendelis	G.Alksnis	01.010.2010. -15.09.2011.
FLPP-2009/15	Development of the method and the prototype for the normalization and linkage of computer-based competence descriptions	M.Kirikova	I.Birzniece R.Strazdina P.Rudzajs U.Sukovskis	01.010.2009. -15.09.2010.
Nr. ZP-2010/7	Development of linkage technology prototype for business process and normative documents bond	M.Kirikova	R.Strazdina P.Rudzajs U.Sukovskis J.Grabis	01.010.2010. -15.09.2011.

SKILLS' UPGRADING (COURSES/WORKSHOPS)

<i>Name, surname</i>	<i>Position</i>	<i>Name of the event and date</i>	<i>Type</i>	<i>Country</i>	<i>Certificate</i>
Alla Anohina-Naumeca	Researcher	31.01.2011-20.06.2011. "University didactics: contemporary theory and practice", Faculty of Education, Psychology and Art, University of Latvia, Riga, Latvia (Cert.No.:015064 20.06.2011)	courses	Latvia	yes
Alla Anohina-Naumeca	Researcher	16.03.2011. Inta Lemeshonoka workshop "Development of students' self-motivation and career in learning process" and Zane Olina workshop "Creative methods in learning process", Riga Technical university, Riga, Latvia	workshop	Latvia	yes
Alla Anohina-Naumeca	Researcher	22.09.2010. 4 hours long workshop "Microsoft® SharePoint® 2010-New Path Towards Business Productivity", Hotel "Albert", Riga, Latvia	workshop	Latvia	yes

Alla Anohina-Naumeca	Researcher	13.09.2010.-20.12.2010. "Lecturers' professional competence for innovation in the European Higher Education Area", Faculty of Education, Psychology and Art, University of Latvia, Riga, Latvia (Cert.No.: 013515 20.12.2010)	courses	Latvia	yes
Ilze Birzniece	Researcher	"Introduction to SPSS Statistics", DPA, 16 h, May 27 – June 3 2011	workshop	Latvia	yes
Ilze Birzniece	Researcher	"Preparing PhD thesis", Riga Technical University, 20 h, January 11 – April 19 2011	workshop	Latvia	yes
Ilze Birzniece	Researcher	"Publication as criterion of researcher's work quality", Riga Technical University, 21 h, March 17 – April 28 2011	workshop	Latvia	yes
Ilze Birzniece	Researcher	"Java Academy", Exigen Services, 100h, May 2 – July 4 2011	courses	Latvia	yes
Ligita Businska	assistant of the scientific work	SAP TERP10 – Business process integration (22.11.2010. – 03.12.2010)	courses	Russia	yes
Ludmila Penicina	assistant of the scientific work	Moodle Course Creator Certificate (2011.g.)	courses	Latvia	yes
Marite Kirikova	Professor	SCOR Users Workshop „SCM Pro Training”, Sensei OU (2010.g.)	workshop	Latvia	yes
Renate Strazdina	Lead. researcher	Chartered Association Certified Accountants (ACCA) – 2009	courses	Latvia	yes
Renate Strazdina	Lead. researcher	APM GROUP - PRINCE 2 project management practitioner (2010)	courses	Latvia	yes

Academic staff newly gained degrees:

<i>Name, surname</i>	<i>Scientific degree</i>
Egons Lavendelis	Dr.sc.ing
Ludmila Penicina	M.oec.

INTERNATIONAL COOPERATION

RTU guest lectors from other countries and guest lectures by RTU staff:

<i>Name, surname</i>	<i>Country</i>	<i>Home University</i>	<i>Guest Lecture in</i>
Kurt Sandkuhl	Germany	University of Rostock	Riga Technical University
James Bowen	Canada	Otawa University	Riga Technical University
Marite Kirikova	Latvia	Riga Technical University	University of Rostock

OTHER ACTIVITIES

Participation in the conference organization committee and program committees, articles' reviewing:

<i>Name, surname</i>	<i>Title of the conference</i>	<i>Responsibilities (sphere)</i>
Alla Anohina-Naumeca	The 6th International Conference "E-Learning and the Knowledge Society", August 25-27, 2010, Riga, Latvia	chair of the organizing team
Alla Anohina-Naumeca	10th International Conference "Perspectives in Business Informatics Research" and 2nd International Workshop on Intelligent Educational Systems and Technology-enhanced Learning, Riga, Latvija, October 6	programme committee member
Alla Anohina-Naumeca	10th European Conference on e-Learning, Braitons, UK, November 10-11, 2011.	programme committee member
Alla Anohina-Naumeca	IADIS International Conference on Intelligent Systems and Agents 2011), Rome, Italy, July 24-26	programme committee member
Alla Anohina-Naumeca	12th International Conference on Computer Systems and Technologies, Vīne, Austrija, 16.-17.jūnijā	programme committee member
Alla Anohina-Naumeca	Rīgas Tehniskās universitātes 52. Studentu zinātniskās un tehniskās konferences Lietišķo datorsistēmu sekcija	review
Alla Anohina-Naumeca	11th International Conference on Computer Systems and Technologies, Sofija, Bulgārija, 17.-18.jūnijā	programme committee member
Alla Anohina-Naumeca	IADIS International Conference on Intelligent Systems and Agents 2010, Freiburga, Vācija, 29.-31.jūlijā	programme committee member
Ilze Birzniece	10th International Conference on Perspectives in Business Informatics Research (BIR2011)	organizing committee member
Janis Grabis	10th International Conference on Perspectives in Business Informatics Research (BIR2011)	organizator chair of program committee
Janis Grabis	International Journal of Manufacturing Technology and Management tematiskajam numuram „Reconfigurable manufacturing systems: Concepts, technologies and applications”	Associated guest editor
Janis Grabis	Journal's OMEGA number „Role of flexibility in supply chain design and modeling”	Associated guest editor
Janis Grabis	International program of technology development and innovation EUREKA, LR Ministry of Education and Science	Project expert
Janis Grabis	18th European Conference on Information Systems, Pretorija, South Africa, 2010, June 7-9	Associated editor
Janis Grabis	9th International Baltic Conference on DB and IS, Riga, Latvia, July 5-7, 2010	programme committee member
Janis Grundspenkis	RTU Scientific Journal of Riga Technical University, Computer Science, S. 5	Chief editor
Janis Grundspenkis	Journal “Avtomatika i vichislitel'naja tehnika”	Member of editorial board
Janis Grundspenkis	Information Systems Development 2010 (ISD 2010)	programme committee member
Janis Grundspenkis	International Conference on Computer Systems and Technology (CompSysTech 2010)	programme committee member
Leonids Novickis	AACE - Association for the Advancements of Computing in Education (U.S.A.)	member
Leonids Novickis	LYOPHANT Simulation Club (Italy)	member

Leonids Novickis	Annual Proceedings of Vidzeme University College "ICTE"	Member of the editorial board
Ludmila Penicina	10th International Conference on Perspectives in Business Informatics Research (BIR2011)	Organizing committee member
Marite Kirikova	2nd Workshop on Software Services (WoSS 2011)	Program committee member Reviewer
Marite Kirikova	9th International Baltic Conference on Databases and Information Systems (DB&IS 2010)	programm committee co-chair Reviewer
Marite Kirikova	10th International Conference on Perspectives in Business Informatics Research (BIR2011)	organizator organizing committee member programm committee member
Marite Kirikova	1st Workshop on Business and IT Alignment (BITA 2010)	programm committee member reviewer
Marite Kirikova	2nd Workshop on Business and IT Alignment (BITA 2011)	programm committee member reviewer
Marite Kirikova	International Conference on Business Process Modeling, Development and Support (12th edition) in conjunction with CAISE'11 (BPMDS'2011)	programm committee member reviewer
Marite Kirikova	19th International Conference on Information Systems Development (ISD 2010)	programm committee member reviewer
Peteris Rudzajs	10th International Conference on Perspectives in Business Informatics Research (BIR2011)	organizing committee member
Renate Strazdina	10th International Conference on Perspectives in Business Informatics Research (BIR2011)	organizing committee member
Uldis Sukovskis	Advances in databases and information systems (ADBIS 2009)	organizing committee member
Uldis Sukovskis	10th International Conference on Perspectives in Business Informatics Research (BIR 2011) Doctoral Consortium and Workshops	programm committee member
Uldis Sukovskis	Business Process Modeling, Development, and Support, June 2011, London, UK (BPMDS 2011)	reviewer
Uldis Sukovskis	9th International Baltic Conference on Databases and Information Systems (DB&IS 2010)	programm committee member
Uldis Sukovskis	19th International Conference on Information Systems Development (ISD 2010)	programm committee member
Uldis Sukovskis	Advances in databases and information systems:workshop on Model-Driven Architecture-foundations, practices and implications (MDA 2009)	programm committee member
Uldis Sukovskis	IBIMA conference on Innovation and Knowledge Management in Business Globalization (IBIMA 2008)	programm committee member

Participation on scientific and professional public organizations:

<i>Name, surname</i>	<i>Title of the organization</i>	<i>Position</i>
Alla Anohina-Naumeca	ACM (Association for Computing Machinery)	member
Dace Apsvalka	Association of Latvian Young Scientists	member

Gundars Alksnis	Association for Computing Machinery (ACM)	Professional Member
Gundars Alksnis	IEEE Computer Society	Associate Member
Janis Grabis	Latvian Simulation and modelling association	member
Janis Grabis	The Latvian Information and Communications Technology Association (LIKTA)	collective member
Janis Grundspenkis	Comission of the Latvian Council's of Science sector "Informatics and engineer sciences"	Member, expert
Janis Grundspenkis	The Latvian Simulation Society	City Council Member
Janis Grundspenkis	Latvian Union of Scientists and Latvian Union of Universitys' professors	member
Janis Grundspenkis	Latvian Academy of Sciences	real member
Janis Grundspenkis	Riga Technical University dr.sc.ing promotional board „RTU P-07“ on Information Technology	chairman
Janis Grundspenkis	Faculty of Computer science and information technology Professors' council	chairman
Janis Grundspenkis	Baltic Operations Research Society (BaltORS)	City Council Member
Janis Grundspenkis	IEEE (The Institute of Electrical and Electronics Engineers)	associate member
Janis Grundspenkis	ACM (Association for Computing Machinery)	member
Janis Grundspenkis	IFAC (International Federation of Automatic Control)	associate member
Janis Grundspenkis	SCSI (The Society for Computer Simulation International)	associate member
Janis Grundspenkis	EUNIS (European University Information Systems Organisation)	asociētais biedrs
Janis Grundspenkis	ECCAI (European Co-ordinating Committee of Artificial Intelligence)	associate member
Janis Grundspenkis	IADIS (International Association for Development of the Information Society)	member
Janis Grundspenkis	Experts for the Latvian and Estonian computer sciences' and information technologies' programs evaluation and accreditations commissions.	Chairman and/or member
Larisa Survilo	ACM (Association for Computing Machinery)	Professional Member
Larisa Survilo	IEEE	Professional Member
Leonids Novickis	Latvian Academy of Sciences	Corresponding Member
Leonids Novickis	Riga Technical University dr.sc.ing promotional board „RTU P-17“ on transport and logistics	Council member
Leonids Novickis	ACM - Association for Computing Machinery	member
Leonids Novickis	Latvian Council's of Science	expert
Leonids Novickis	University's of Latvia Board of	Council Member

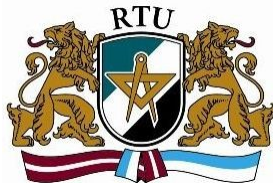
	Professors	
Leonids Novickis	Riga Technical University dr.sc.ing promotional board „RTU P-07“ on Information Technology	expert
Marite Kirikova	AIS (Association for information Systems)	member
Marite Kirikova	IEEE (Institute of Electrical and Electronics Engineers)	member
Marite Kirikova	ACM (Association for Computing Machinery)	member
Marite Kirikova	IIBA (International Institute of Business Analysis)	member
Marite Kirikova	Latvian Council's of Science	expert
Marite Kirikova	International Editorial Review International Journal of Information System Modeling and Design (IJISMD)	Board member
Peteris Rudzajs	IEEE	member
Uldis Sukovskis	Latvian Academy of Sciences	korespondētājloceklis
Uldis Sukovskis	ISACA Latvia chapter	member
Uldis Sukovskis	Riga City Council of Information technology institute	member
Uldis Sukovskis	The Latvian Information and Communications Technology Association (LIKTA)	member
Uldis Sukovskis	International Software Testing Qualification Board Latvian chapter board	member
Uldis Sukovskis	Information Systems Audit and Control Association	member
Uldis Sukovskis	Riga Technical University dr.sc.ing promotional board „RTU P-07“ on Information Technology	expert
Valerijs Zagurskis	IEEE	member
Valerijs Zagurskis	ACM	member
Valērijs Zagurskis	Riga Technical University dr.sc.ing promotional board „RTU P-07“ on Information Technology	expert

Activities in enterprises, the cooperation with companies (training, etc.):

<i>Name, surname</i>	<i>Enterprise</i>	<i>Position or the type of the cooperation</i>
Janis Grabis	Digital Mind	Cooperation in the project FLPP-2010/6 and academic master's program "Business Informatics"
Janis Grabis	Accenture	Cooperation in the project ZP-2010/7
Janis Grabis	Lattelecom	Cooperation in the project ZP-2009/15
Ligita Businska	Digital Mind	Cooperation in the project FLPP-2010/6 and academic master's program "Business Informatics"
Ludmila Penicina	Lattelecom	Cooperation in the project ZP-2009/15
Ludmila Penicina	FMS Ltd.	Lecture
Marite Kirikova	Digital Mind	Cooperation in the project FLPP-2010/6 and academic master's program "Business Informatics"

Marite Kirikova	Accenture	Cooperation in the project ZP-2010/7
Marite Kirikova	Lattelecom	Cooperation in the project ZP-2009/15
Marite Kirikova	FMS Ltd.	Lecture
Peteris Rudzajs	Lattelecom	Cooperation in the project ZP-2009/15
Renate Strazdina	Digital Mind	Cooperation in the project FLPP-2010/6 and academic master's program "Business Informatics"
Renate Strazdina	Accenture	Cooperation in the project ZP-2010/7
Renate Strazdina	Lattelecom	Cooperation in the project ZP-2009/15
Uldis Sukovskis	Digital Mind	Cooperation in the project FLPP-2010/6 and academic master's program "Business Informatics"
Uldis Sukovskis	Accenture	Cooperation in the project ZP-2010/7
Uldis Sukovskis	Lattelecom	Cooperation in the project ZP-2009/15
Uldis Sukovskis	AAS "Gjensidige Baltic"	Information system's audit after request from enterprise (22.11.2010-31.01.2011)

Students' surveys about study program



Survey about study year 2010/2011

Course: _____

Conductor: _____

		completely agree	partly agree	neutral rating	partly disagree	completely disagree	no rating
1.	At the beginning lecturer introduced students with course's program and evaluating system						

		completely agree	partly agree	neutral rating	partly disagree	completely disagree	no rating
2.	Lecturer covered all provided program and appropriate used lecture's time						

		completely agree	partly agree	neutral rating	partly disagree	completely disagree	no rating
3.	Course's topics were well structured and clearly explained						

		completely agree	partly agree	neutral rating	partly disagree	completely disagree	no rating
4.	Lecturer was prepared well for lectures						

		completely agree	partly agree	neutral rating	partly disagree	completely disagree	no rating
5.	Lecturer effectively used audio-visual demonstration staff						

		completely agree	partly agree	neutral rating	partly disagree	completely disagree	no rating
6.	A speech to lecturer was clear and understandable						

		completely agree	partly agree	neutral rating	partly disagree	completely disagree	no rating
7.	A proposed educational literature was available and						

	helped to acquire the study course						
--	------------------------------------	--	--	--	--	--	--

		completely agree	partly agree	neutral rating	partly disagree	completely disagree	no rating
8.	It was possible to obtain lecture's consultation						

		completely agree	partly agree	neutral rating	partly disagree	completely disagree	no rating
9.	Lecturer usually arrived to the lectures without delay						

		completely agree	partly agree	neutral rating	partly disagree	completely disagree	no rating
10.	Study materials were available into e-learning environment						

		completely agree	partly agree	neutral rating	partly disagree	completely disagree	no rating
11.	The course's description didn't overlap with other courses						

		0-19%	20-39%	40-59%	60-79%	80-100%
12.	What part of the lectures you have visited?					

it@rtu.lv, +371 67089999

- BUSINESS INFORMATICS -

Survey on the subject _____

1. What did you expect from this course? What are the gains so far? What are you still awaiting?

2. What do you think, will the knowledge from this course be beneficial for your career?

3. In the course (so far) you were most interested in which 3 topics?

4. Where there in the course (so far) the topics too hard to understand? If, yes,- list them, please, bellow.

5. Where there in the course (so far) the topics too boring to you? If, yes,- list them, please, bellow.

6. If you had a chance to choose this course now, would you choose it? Why?

7. Do you have specific suggestions for course improvement? If, yes,- list them, please, bellow.

Employers' surveys about study program

Employer's survey about RTU study program „Business Informatics“

1. Please rate in the 10-point scale all compulsory courses' suitability for your company

Course/rate	Learning outcomes
DSP706 Business Process Management and Engineering	Is able to recognize and use business process modelling languages and tools. Can develop and use in business process analysis, management, and improvement models of complex business processes. Can relate business process models to different enterprise architectures and analyse processes in compliance with the chosen architecture. Can develop a business process management model and identify business process support software requirements.
1 2 3 4 5 6 7 8 9 10	
DLP700 e-Business Solutions	Be able to formulate how Internet technology influence the efficiency of business processes development and management. Be able to present and discuss advantages of the use of e-solutions. Be able to formulate the basic principles of creating of web based corporative business portal. Be able to develop models of business processes organisation and management using e-solutions software. Be able to apply e-solutions in selected application domains (logistics and transport, insurance, etc.)
1 2 3 4 5 6 7 8 9 10	
DOP701 Portfolio Management Technologies	Ability to determine project portfolio efficiency measures and to allocate resources to competing projects Ability to analyze project portfolio and to identify the most promising projects Ability to integrate portfolio management into enterprise information technology architecture Ability to design technological environment for portfolio management
1 2 3 4 5 6 7 8 9 10	
DSP707 Service Science, Management and Engineering	Is able to explain basic principles, pros, and cons of SSME and SOA; recognizes elements of SOA infrastructure and SOA life cycle. Can assess and explain the necessity (or the opposite) of service introduction according to organisational goals and enterprise/business architecture. Using service development tools is able to integrate services into the business process by choosing the services which are most suitable to business goals of the enterprise. Is able to monitor service performance of business processes, identify the need for performance improvement, and suggest a service improvement plan.
1 2 3 4 5 6 7 8 9 10	
DSP708 Advanced Data Technologies	Master different types of universal database extensions, their logical models. Can design universal, temporal, spatial, deductive, multidimensional, and semi-structured database systems. Know how to ensure data quality.
1 2 3 4 5 6 7 8 9 10	
DPI721 Business Analytics	Students will understand basic business concepts and know how to identify business analytics requirements for the company Students will be able to apply business performance management methods and metrics Knowledge how business intelligence can increase a company's bottom line Students will know the main data analysis tools and techniques available
1 2 3 4 5 6 7 8 9 10	
DPI704 Quality, Risk and Security Technologies	Can discuss and support his / her views on the basic principles, and limitations thereof, of IT quality, risk and security management; The student is aware of IT quality, risk and security management Can support his/her view on necessity of implementation of the IT quality, risk, and security management process and the most effective way depending on organization goals and structure. Can deploy appropriate tools to designing a quality and / or risk and / or security process in an enterprise (in a certain environment). Can perform a risk assessment and design improvements.
1 2 3 4 5 6 7 8 9 10	

DSP703 Systems Theory	Student is able to interpret basic concepts of systems theory concerning phenomena of real world. Student knows laws and principles of systems. Student is able to classify systems accordingly with different classification criteria. Student is able to construct the model of system's structure and to carry out its analysis. Student understands principles of system control and management. Student knows basic notions of living and viable systems and applications of systems theory in business informatics context.
1 2 3 4 5 6 7 8 9 10	
DSP701 Knowledge Management Systems	Ability to perform a knowledge audit. Ability to align business strategy and knowledge management strategy. Ability to use and evaluate knowledge management technologies. Ability to understand the nature of knowledge and socio-ethical and administrative factors of knowledge management. Ability to choose knowledge management methods and tools for product and service oriented organisations and organizational networks. Ability to design knowledge management system.
1 2 3 4 5 6 7 8 9 10	
DSP700 Enterprise Architecture and Requirements Engineering	Students understand common and specific issues of requirements engineering and systems design. Students are able to acquire requirements without overstepping ethical principles of business, systems analysis, and information systems design. Students are able to use and evaluate requirements engineering methods and tools. Students are able to use and evaluate requirements management methods and tools. Students are able to design models of information logistics and information systems that conform to requirements. Students recognize, can evaluate and use different enterprise/business architecture frameworks and their models. Can design enterprise architecture.
1 2 3 4 5 6 7 8 9 10	
DSP702 Research Methods for Business Informatics	Know – research process, main activities, results. Know – research methods appropriate in Business Informatics research process. Know – research paper development techniques and standards. Can – find the most appropriate methods for the particular research. Can – do research according to the generally accepted methods, standards and techniques.
1 2 3 4 5 6 7 8 9 10	

2. Please rate in the 10-point scale all compulsory elective courses' suitability for your company

Course/rate	
Networking	
DST702 Mobile, Grid, and Ambient Networking	Ability to discuss the basic principles of MGAN, their main advantages and limitations, acquired knowledge of infrastructure elements and technology life cycles. Ability to discuss MGAN utilization (non utilization) necessity corresponding to particular industry (business) processes. Ability to choose and integrate known models, methods, and techniques of MGAN into industrial and business processes. Ability to monitor MGAN technology performance in controlled industrial processes.
1 2 3 4 5 6 7 8 9 10	
DPI700 Storage Networking	To explain storage networking aims and current restrictions. To explain current and emerging SAN concepts and compare their implementations. To be able to select the most proper technology solution for specific business problem and discuss it with both business and IT professionals. To be able to integrate multiple solutions to set up and run SANs.
1 2 3 4 5 6 7 8 9 10	
RRI700 Networking Technologies in Education	Knowledge on application of Web 2.0 technologies in education, Open Learning Resources and their role in innovative business

1 2 3 4 5 6 7 8 9 10	
Specific software applications	
DSP705 Artificial Intelligence in Business	Knows different programming approaches and possibilities to apply them.
1 2 3 4 5 6 7 8 9 10	Knows and is able to apply the latest solutions of artificial intelligence. Knows the types of intelligent agents, their characteristics, is capable to choose suitable agents and apply them to solve problems of various domains. Knows agent interaction mechanisms and is capable to design the mechanisms for different applications. Understands intelligent mechanisms used in agents and is capable to choose the most suitable one(-s) for a specific system. Has a good knowledge about agent oriented software engineering process and is capable to carry out activities corresponding to the analysis and design phases.
DOP702 Customer Relationship Management and Social Network Technologies	Ability to automate high frequency business processes Analysis and interpretation of information propagation in social networks Integration of enterprise applications and social networking technologies
1 2 3 4 5 6 7 8 9 10	Understanding the role of customer relationship management systems in business process optimization
DSP710 Software Applications in Education	Students will be able to classify, recognize and give examples of different ICT supported learning types. Students will be able to identify goals, issues and activities of the learning process which can be supported by the use of educational software applications. Students will be able to compare, evaluate and choose software solutions for specific learning situations and issues. Students will be able to apply specific development principles when designing educational software. Students will be able to use educational software applications of different types.
1 2 3 4 5 6 7 8 9 10	
Enterprise Information Systems	
PBM703 Information Technology and Strategy	Able to define The Role and Responsibilities of the Chief Information Officer in Information Technology and Strategy. Able to design Governance and Organizational structure to Support Information Technology Strategy Development and Implementation.
1 2 3 4 5 6 7 8 9 10	Able to use the project management tools in Organizational IT Portfolio Management and Application development. Able to perform Assessment and Evaluation of Organizational Information Technology and to develop proposals for Organizational Development and Management of Information Technology. Able to plan IT Project Risk, Enterprise Wide Security and develop proposal for Organizational IT Risk Management.
DOP700 Enterprise Information Technology Architecture, Applications, and Integration	To know main functional capabilities of enterprise applications and their application areas Ability to select the most appropriate solution for business process automation
1 2 3 4 5 6 7 8 9 10	To understand implementation life-cycle of enterprise applications and main implementation activities Ability to document implementation of enterprise applications Ability to configure enterprise applications and to modify user interface, reports and elements of enterprise portal Ability to orchestrate executable business processes and knowledge of integration standards
DPI722 e-Services in Education and Science	Can define e-services to develop organization's products or increase efficiency.
1 2 3 4 5 6 7 8 9 10	Knows how to set up a project team for e-service implementation and how to write an e-service description and solve issues related to the e-service maintenance Is able to define necessary infrastructure for e-service delivery, taking

	<p>into account opportunities provided by outsourcing companies and social networks.</p> <p>Is able to analyze e-services used within the education and science industries and to transfer methods used in other industries.</p>
<i>Humanitarian and social, educational or economic and management</i>	
PBM415 Business Law	<p>This course provides an introduction to the basic legal principles governing business transactions in market economics and how these principles are being adapted and implemented in Latvian context. Topics covered include contracts, the law on business organizations, including agencies, partnerships and corporations; debtor-creditor relations such as credit and secured transactions and bankruptcy and commercial paper, including negotiable instruments and documents of title. In addition the course will cover the emerging business of Law in Latvia as this per</p>
1 2 3 4 5 6 7 8 9 10	
PBM423 Business Ethics	<p>The course is designed to provide a new insight into business related ethical problems, to reveal the modern approach to solutions of the common problems arising in business relations.</p>
1 2 3 4 5 6 7 8 9 10	
PBM409 Entrepreneurship	<p>This course focuses on factors related to the initiation and development of new business ventures, in contrast to the management of large, ongoing enterprises. Topics covered include personal entrepreneurial potential, career considerations, start-up planning, sources of venture ideas, entry strategies, acquisition strategies, managing for survival. Primary emphasis is on the process of starting a new venture. Entrepreneurs will meet with the class to discuss their own experiences.</p>
1 2 3 4 5 6 7 8 9 10	
PBM430 Business Communication Skills	<p>The course will provide students the opportunity to study in detail the theoretical and practical approaches to business and management communication. The course will teach to analyse audiences, develop arguments, and test one's ability to persuade in writing and speaking. The specific learning objectives in this course are:</p> <p>(1) To develop a practical knowledge of the theories and principles of business and management communication.</p> <p>(2) To develop tools that aid communication in a wide range of scenarios (writing, speaking, nonverbal communication, presentation materials).</p> <p>(3) To strengthen your communication skills through group and individual exercises in different communication scenarios, as well applied to different forms of writing (including sales letters, reports, memos, etc.) and to verbal communication.</p>
1 2 3 4 5 6 7 8 9 10	
HPS401 Basics of Pedagogical Process	<p>Skills to compare and assess different pedagogical systems , to characterize pedagogical values.</p> <p>Understand the specific and principles of adult education.</p> <p>Have a holistic knowledge to illustrate the system and interrelated components of pedagogical process.</p> <p>Is able to characterize strategies for adult education.</p> <p>Is able to participate in argumentative discussion/debate on quality of knowledge, different conceptualization of competence.</p> <p>Skill to design pedagogical process. Is able to diagnose learning needs and create professional development module./ To develop personal learning plan.</p>
1 2 3 4 5 6 7 8 9 10	

3. Please rate in the 10-point scale employee's suitability for your company who has graduated the Business Informatics

1 2 3 4 5 6 7 8 9 10

Enterprise _____

Name, surname _____

Your position on enterprise _____

Date _____

In study year 2010/2011 ordered books for study
program

In study year 2010/2011 in RTU Scientific Library ordered books for study program „Business Informatics”

1. Ulf Troppens, etc. Storage Networks Explained: Basics and Application of Fibre Channel SAN, NAS, iSCSI, InfiniBand and FCoE [Hardcover], Wiley, 2009. ISBN-13: 978-0470741436
2. Paul P. Maglio, etc. Handbook of Service Science (Service Science: Research and Innovations in the Service Economy) [Hardcover], Springer, 2010. ISBN-13: 978-1441916273
3. Newman, M. (2010), Networks: An Introduction, Oxford University Press, ISBN13: 9780199206650
4. Becker (2011) Process Management, Hardcover, ISBN: 978-3-642-15189-7
5. Boyer (2011) Agile Business Rule Development, Hardcover, ISBN: 978-3-642-19040-7
6. Dietz (2006) Enterprise Ontology, Hardcover, ISBN: 978-3-540-29169-5
7. Hafner (2009) Security Engineering for Service-Oriented Architectures, Hardcover, ISBN: 978-3-540-79538-4
8. Pohl (2010) Requirements Engineering, Hardcover, ISBN: 978-3-642-12577-5
9. Greefhorst (2011) Architectures Principles, ISBN: 978-3-642-20278-0
10. Embley (2011) Handbook of Conceptual Modeling, Hardcover, ISBN: 978-3-642-15864-3
11. Alan Mark Davis (2004) Just Enough Requirements Management: Where Software Development Meets Marketing, Dorset House Publishing, ISBN: 0-932633-64-1

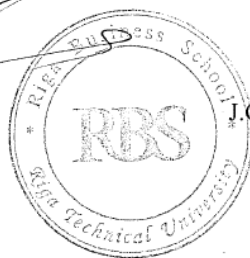
Evidence of the possibility to transfer to
another study program if study program
"Business Informatics" is liquidate

2010. gada 7. janvārī
Nr. 01B00/1-7.2/1

APLIECINĀJUMS

RTU Rīgas Biznesa skola apliecina, ka nodrošinās maģistra akadēmiskās studiju programmas „Biznesa informātika” (šifrs DMB0) studentiem studiju turpināšanas iespējas profesionālā maģistra studiju programmā „Uzņēmumu un organizāciju vadīšana” (šifrs RIGV0) gadījumā, ja neparedzētu apstākļu dēļ maģistra akadēmiskās studiju programmas „Biznesa informātika” īstenošana tiks pārtraukta.

Direktors



J. Grēviņš

Žuravļova 67089800

Rīgas Tehniskā universitāte

**DATORZINĀTNES UN
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TEHNOLOĢIJAS FAKULTĀTE**

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**FACULTY
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E-mail: : dean@cs.rtu.lv

07.01.2010.

16.12.1

Apliecinājums

Gadījumā, ja neparedzētu apstākļu dēļ maģistra akadēmiskās studiju programmas „Biznesa informātika” (šifrs DMB0) īstenošana tiks pārtraukta, tad Datorzinātnes un informācijas tehnoloģijas fakultāte nodrošinās studentiem studiju turpināšanu maģistra akadēmisko studiju programmās „Datorsistēmas” (šifrs DMD0) vai „Informācijas tehnoloģija” (šifrs DMI0).

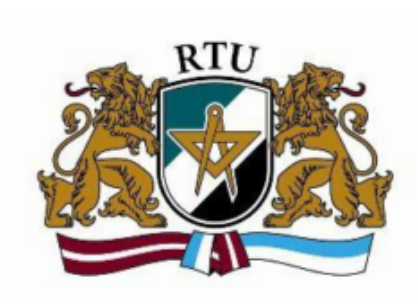
Datorzinātnes un informācijas tehnoloģijas fakultātes
dekāns, profesors


/J. Grundspenķis/

Sample of diploma

Real diploma is in Latvian.

**RIGA TECHNICAL
UNIVERSITY**



**MASTER'S
DIPLOMA**

Series MD C
Nr. 1234 *

Janis Liepins
personal code 010181-11111

obtained
**MASTER DEGREE
of Engineering Sciences
in Business Informatics**

Rector

Leonids Ribickis

Faculty's Council Chairman

Uldis Sukovskis

Riga
July 1, 2011
Registration nr. 123-001