

# BIR 2011

## 10th International Conference on PERSPECTIVES IN BUSINESS INFORMATICS RESEARCH

October 6 - 8, 2011, Riga, Latvia

Organized by Riga Technical University

## CONFERENCE PROGRAM



<http://bir2011.rtu.lv>

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## WELCOME TO BIR 2011

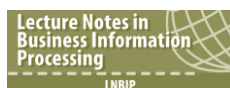
Welcome to the 10th International Conference on Perspectives in Business Informatics Research, Riga, Latvia. Information and Communication Technology (ICT) plays an increasingly important role in organizations, inter-organizational networks, society and individuals' daily life. Business activities are dependent on complex, distributed software systems operating in dynamic and often unpredictably changing business environments. It is in this context that Business Informatics Research is essential. Demand for increasing interoperability exists at technological, business process, and knowledge levels. Methods, theories, and tools that maintain change and adaptation of business processes, organizations, and their supporting software are needed. Furthermore, recent challenges are directed to more human-orientated, highly personalized and trustworthy systems enabling their users to cope with the large variety of frameworks, technologies and tools needed to accommodate emerging business applications. Therefore, one of the areas of focus here is quantitative and qualitative methods for measuring, predicting, and understanding the value that ICT brings to the enterprise. The theme for this conference is making businesses, people and systems interoperable and adaptive in highly interconnected and changing contexts. We hope that BIR 2011 participants will enjoy BIR 2011 conference and find many opportunities for fruitful discussions. In this conference program you might find some useful information both for the conference and your stay in Riga.

The BIR 2011 Organizing Committee

Riga, October 2011

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## INVITED SPEAKERS



### **Prof. Dr. Dimitris Karagiannis**

*Head of the Institute for Business and Knowledge Engineering University of Vienna*

#### **Next Generation of Modelling Platforms**

Assuming that modelling becomes commodity as an evolution of the abstraction in IT research, one needs to consider challenges like business and IT alignment, service science or Cloud Computing. Thus a growing number of groups around the world show interest in modelling methods – either standard or individual ones – that satisfy the requirements of their domain.

In order to analyse modelling methods in different domains, we introduce a general modelling method specification framework that describes modelling methods on three major parts: (a) the modelling language that describes the syntax, semantic notation, (b) the modelling procedures that describe the methodology as well as (c) the modelling functions represented in algorithms and mechanisms that specify the behaviour of a modelling method.

Equally according to the rise of modelling methods there is a need for reuse, integration or combination of different modelling methods. The meta-modelling approach is considered to provide the required concepts and mechanisms to combine different modelling methods for the so-called Hybrid Method Engineering.

The Next Generation Modelling Framework (NGMF) supports Hybrid Method Engineering, both on a conceptual and on a technical integration level. On the conceptual level the NGMF provides mechanisms to encapsulate modelling methods and enable the hybrid usage of different modelling languages. On the technical level the Next Generation Modelling Platform provides functionality for modelling method engineering and modelling method application.

Sample scenarios in the domain of business and IT alignment will be introduced where different modelling methods have been used for a hybrid model representation. The talk will conclude with the Open Models Initiative, which is an international scientific community focusing on modeling method engineering and modeling method application.



### **Prof. Dr. John Krogstie**

*Norwegian University of Science and Technology, Trondheim, Norway*

#### **Business Information Systems utilizing the Future Internet**

The "Internet of Things" (IoT) has come to describe a new paradigm that enables the Internet to reach out into the real world of physical objects. Technologies like RFID, short-range wireless communication, real-time localization and sensor networks are becoming increasingly common and turning IoT into reality. It is expected to grow rapidly into a huge new market domain that may lead to disruptive changes in areas such as logistics, energy management and healthcare. Mobile and collaborative applications and services utilizing information processing and process support enabled by sensor data from a vast number of connected and cheap devices will change many markets when being made more easily available. New event-driven architectures (EDA) providing varied information to support collaborative decision-making enable more decisions to be made closer to the problem owner. The expected impacts of the combination of IoT and EDA on business and society are formidable. It also opens the possibility to take into account additional input from users to ensure shorter turnaround from ideas to new, personalized information systems support.

Future business information systems will need to take this situation into account, addressing both technological and conceptual challenges. The presentation will focus on the latter, discussing in particular the potential role of model-based techniques and how to assess and improve the quality of models and modelling approaches in this setting.

## BIR 2011 WORKSHOP AND DC PROGRAM

### Thursday, October 6, 2011

Registration: 8:00 – 17:00 at Meža 1, Faculty of Computer Science and Information Technology

**Workshop Chair meeting: 8:45 at Meža 1/4-514**

Registration: 19.00 – 21.00 at Kaļķu 1, RTU Main Building

Welcome party: 19.30 – 22.00 at Kaļķu 1, RTU Main Building

### **1st International Workshop on Alignment of Business Process and Security Modelling (ABPSM 2011)**

*Meža 1/3-407*

<i>Time</i>	<i>Presentation</i>
<b>SESSION 1: Security in Social Engineering</b>	
Chair: <i>Raimundas Matulevičius</i>	
9:00 – 10:30	Keynote: <i>Haralambos Mouratidis</i>
10:30 – 11:00	Coffee Break <i>Meža 1/4-220</i>
<b>SESSION 2: Business Process and Security</b>	
Chair: <i>Peter Karpati</i>	
11:00-11:25	<i>Guttorm Sindre</i> Suggesting Processes to Double-Cross Social Engineers (short presentation)
11:25-12:00	<i>Khaled Gaaloul, Erik Proper and François Charoy</i> Injecting Task Delegation Constraints into a Formal Security Model
12:00-12:25	<i>Naved Ahmed and Raimundas Matulevičius</i> A Template of Security Risk Patterns for Business Processes (short presentation)
12:25-14:00	Lunch <i>Meža 1/4-220</i>
<b>SESSION 3: Use and Misuse Cases</b>	
Chair: <i>Khaled Gaaloul</i>	
14:00-14:35	<i>Sundar Gopalakrishnan, John Krogstie and Guttorm Sindre</i> Templates for Use and Misuse Cases in Mobile and Multi-Channel Systems
14:35-15:10	<i>Yashar Bizhanzadeh and Peter Karpati</i> jMUCMNav: an Editor for Misuse Case Maps
15:10-15:30	<i>Oluwasefunmi Arogundade, Adio Akinwale, Zhi Jin and Xiaoguang Yang</i> Enhancing Use Cases for Deployed Information system Security Threats Identification (short presentation)
15:30-16:00	Coffee break <i>Meža 1/4-220</i>
<b>SESSION 4: Security Requirements</b>	
Chair: <i>Guttorm Sindre</i>	
16:00-16:35	<i>Andrea Herrmann, Ayse Morali, Sandro Etalle and Roel Wieringa</i> Risk-Based Security Requirements Prioritization
16:35-17:10	<i>Elda Paja, Paolo Giorgini, Stéphane Paul and Per Håkon Meland</i> Security Requirements Engineering for Business Processes
17:10-17:30	Discussion, closing the workshop

## 1st International Workshop on User Oriented Information Integration (UOII 2011)

*Meža 1/3 -512*

<i>Time</i>	<i>Presentation</i>
<b>SESSION 1: Experience - Information Systems in Production</b> Chair: <i>Laila Niedrite</i>	
9:00 – 10:30	Workshop Opening  <i>Aivars Niedritis</i> Delivery of Consistent and Integrated User's Data within a Multi-Tenant Adaptive SaaS Application  <i>Aivars Irmejs and Guntis Arnicans</i> Practical Issues of Integrating Advertising Data from the World Wide Web
10:30 – 11:00	Coffee Break <i>Meža 1/4-220</i>
<b>SESSION 2: Information Integration and Visualization Based on Models</b> Chair: <i>Guntis Arnicans</i>	
11:00-12:30	<i>Aivars Niedritis, Laila Niedrite and Natalija Kozmina</i> Integration Architecture of User Models
	<i>Marko Niinimaki, Tapio Niemi, Stephen Martin, Jyrki Nummenmaa and Peter Thanisch</i> Data Integration for Timely Report Production at the World Health Organization
	<i>Guntis Arnicans and Girts Karnitis</i> A Data Browsing from Various Sources Driven by the User's Data Models
12:30-14:00	Lunch <i>Meža 1/4-220</i>
<b>SESSION 3: Fulfilment of User Requirements</b> Chair: <i>Laila Niedrite</i>	
14:00-15:30	<i>Jianing Wang, Alexandra Poulouvasilis and Nigel Martin</i> A Quality Framework for Data Integration Incorporating User Requirements
	<i>Inese Supulniece and Janis Grabis</i> User Oriented Process Adaptation in Enterprise Applications
	<i>Darja Solodovnikova and Natalija Kozmina</i> Determining Preferences from Semantic Metadata in OLAP Reporting Tool
15:30-16:00	Coffee break <i>Meža 1/4-220</i>
<b>SESSION 4: Experimental Researches</b> Chair: <i>Guntis Arnicans</i>	
16:00-17:30	<i>Aleksejs Kozmins</i> Near Real Time ETL: Practical Approach Using Property Map Strings
	<i>Artis Mednis</i> Vehicle Position Determination Using Several SBAS Receivers and Data from Local Reference Stations
	Workshop Closing

## 4th Workshop on Information Logistics and Knowledge Supply for Viable Enterprises (ILOG 2011)

Meža 1/3 - 514

<i>Time</i>	<i>Presentation</i>
<b>SESSION 1: Applications</b>	
9:00 – 10:30	<i>Sven Meister.</i> Usage of CEP and HL7 to solve information logistics problems in telemedicine
	<i>Ruediger Steffan and Harald Mumm.</i> Database Design for Vehicle Routing Problems
	<i>Kurt Sandkuhl, Alexander Smirnov and Nikolay Shilov.</i> Information Logistics in Engineering Change Management: Integrating Demand Patterns and Recommendation Systems
10:30 – 11:00	Coffee Break <i>Meža 1/4-220</i>
<b>SESSION 2: Ontologies in Information Logistics</b>	
11:00-12:30	<i>Karl Hammar.</i> The State of Ontology Pattern Research
	<i>Tatiana Levashova.</i> Ontology-based Context Reuse in Emergency Management Domain
	<i>Vladimir Tarasov and Andrew Krizhanovsky.</i> Enrichment of Ontology-Based Competence Profiles with Semistructured Wiktionary Data
12:30-14:00	Lunch <i>Meža 1/4-220</i>
<b>SESSION 3: Viable Enterprises and Enterprise Modeling</b>	
14:00-15:30	<i>Marite Kirikova, Paolo Piciocchi, Clara Bassano, Janis Makna and Julija Stecjuka</i> IS Based Best Process Practices Propagation in Fractal Enterprises: a Viable Systems Perspective
	<i>Nadeem Ahmed Khan.</i> Transformation of Enterprise Model to Enterprise Ontology
	<i>Janis Makna.</i> Method of information system prospective changes modelling
15:30-16:00	Coffee break <i>Meža 1/4-220</i>
<b>SESSION 4: Evaluation and Business Models</b>	
16:00-17:30	<i>Ulrike Borchardt.</i> KMS Application and Perception in SME
	<i>Darek M. Haftor.</i> Information Logistic Business Models: A New Direction for Research (Position Paper)
	Workshop Closing

## 2nd International Workshop on Intelligent Educational Systems and Technology-enhanced Learning (INTEL-EDU 2011)

Meža street 1/4-515

**Workshop Co-chairs:** Janis Grundspenķis, Leonids Novickis

<i>Time</i>	<i>Presentation</i>
<b>SESSION 1</b>	
9:00 – 9:10	Opening
9:10 – 9:25	<i>J.Grundspenķis, J.Ciekure (RTU, Latvia)</i> The Conceptual Framework for Integration of Intelligent Tutoring and Knowledge Management Systems in Education Settings.
9:25 – 9:45	<i>E.Bluemel, H.Fredrich, A.Winge ( Fraunhofer IFF Institute, Germany)</i> Using Mixed Reality for Expertise Networks to Transfer Knowledge to Industry
9:45 – 10:00	<i>A.Mitasiunas (Vilnius University, Lithuania), L.Novickis (RTU,Latvia)</i> Education Capacity Assessment and Improvement.
10:00 – 10:15	<i>V.Vagale, L.Niedrīte (University of Latvia)</i> E-learning System Individualization for Intellectual Ability Measurement
10:15 – 10:30	<i>P.Bellstrom, L.Molin (Karlstad University, Sweden)</i> An Explorative Study for Evaluating „Scratch” – A Tool for Learning Programming
10:30 – 11:00	Coffee Break <i>Meža 1/4-220</i>
<b>SESSION 2</b>	
11:00 – 11:15	<i>J.Grundspenķis, R.Rollande (RTU, Latvia)</i> Graph Based Framework for Personalization of Education Process Realized by the Tutoring Module of Intelligent Tutoring System.
11:15 – 11:30	<i>R.Elferink (RayCom BV, Netherlands)</i> Workplace Learning: Have a break, Have a LightBite
11:30 – 11:45	<i>J.Leino, E.Tanhua-Piironen, J.Sommers-Piironen (University of Tampere, Finland)</i> Adding Social Media Features to Work-related Adult Learning: Educator Views, Expectations and Experiences
11:45 – 12:00	<i>F.Goethals, K.Toumazeau, M.Billiot, A.Caplan, C.Zanetto, O.Loquineau (IESEG School of Management, Belgium / France)</i> Using Antecedents of Offline Training Satisfaction to Explain the Intention to Use Online Learning Platforms
12:00 – 12:15	<i>R.Lukašenko, J.Grundspenķis (RTU, Latvia)</i> IKAS as a Tool for Internationalization of Education
12:15 – 12:30	<i>A.Lesovskis, V.Kotovs, L.Novickis, T.Rikure (RTU, Latvia)</i> Supporting the Psychophysiological Model of the Learner in the Collaborative e-Learning System
12:30 – 14:00	Lunch <i>Meža 1/4-220</i>
<b>SESSION 3</b>	
14:00 - 14:15	<i>A.Romanovs, OSoshko, Y.Merkuryev, L.Novickis (RTU, Latvia)</i> Harmonizing „Logistics Information Systems” Course`s Content According to Bloom`s Taxonomy
14:15 – 14:30	<i>M.Hochmeister (Vienna University of Technology, Austria)</i> Expert Profiling in Learning Networks
14:30 – 14:45	<i>J.Lavendels, V.Sitikovs, J.Steinmans, G.Jekabsons (RTU, Latvia)</i> Application Sharing for Distance Teaching and Learning
14:45 – 15:00	<i>V.Graudiņa (RTU, Latvia)</i> Algorithms for Knowledge Remediation in Concept Map Based Assessment System
15:00 – 15:15	<i>M.Strautmane (RTU, Latvia)</i> Expansion of a Set of Graph Patterns for IKAS



<i>Time</i>	<i>Presentation</i>
15:15 – 15:30	<i>A.Puþtsau (European Humanities University), B.Mishnevs (TSI, Latvia)</i> Knowledge Based Training for Academic Staff – a Common Solution for Two Baltic Universities
15:30 – 16:00	Coffee break <i>Meþa 1/4-220</i>
<b>SESSION 4: RTU BONITA Showroom Launch Event</b>	
16:00 – 17:30	<i>A.Jurenoks, L.Novickis, T.Rikure, M.Sotnicoks (RTU, Latvia), A.Mitasiunas (University of Vilnius, Lithuania)</i> Promotion of E-learning and Other ICT Solutions via BONITA Project`s Baltic Regional Competence Network and Showrooms  Demonstration of Baltic Sea Region INTERREG Programme BONITA Project`s RTU Showroom  BONITA Showroom Welcome Reception  Discussion, WS closing

## BIR 2011 DOCTORAL CONSORTIUM PROGRAMME

Meþa iela 1/4 - 546

**DC Chair:** *Gundars Alksnis*

<i>Time</i>	<i>Presentation</i>
<b>SESSION 1</b>	
09:00 – 10:30	Opening <i>Askoldas Podvieszko (Lithuania)</i> Enhancement of Multicriteria Decision Aid Approach by Reporting Tools.
	<i>Bernards Gulbis (Latvia)</i> Constructing of Sequence Diagrams by Means of Topological Functioning Model.
	<i>Jagna Anna Kluk (Poland)</i> Model of Requirements Identification in IT Outsourcing Projects.
10:30 – 11:00	Coffee Break
<b>SESSION 2</b>	
11:00 – 12:30	<i>Peteris Rudzajs (Latvia)</i> Education Offer/Demand Monitoring Approach.
	<i>Vineta Arnicane (Latvia).</i> End-User Development Framework with DSL for Spreadsheets.
	Discussion. Closing.
12:30 – 14:00	Lunch

## BIR 2011 CONFERENCE PROGRAM

### Friday, October 7, 2011

Registration: 8:00 – 17:00 at Kaļķu 1 RTU Main Building

<i>Time</i>	<i>Presentations, Location</i>	
8:45	<b>Opening</b> <i>Kaļķu 1, Room 201</i>	
9:00 – 10:00	<b>Keynote:</b> <i>Prof. Dr. Dimitris Karagiannis (Austria)</i> Next Generation of Modelling Platforms, <i>Kaļķu 1, Room 201</i>	
10:00 – 10:20	Coffee break	
10:20 – 12:00	<p><b><u>Architectures</u></b> <i>Kaļķu 1, Room 201</i> <b>Chair: Jyrki Nummenmaa</b></p> <p>An Analysis of Enterprise Architecture Maturity Frameworks - <i>Martin Meyer, Markus Helfert and Conor O'Brien (Ireland)</i></p> <p>Enterprise Resource Planning (ERP) Systems: Use of Reference Models - <i>Dejan Pajk, Mojca Indihar-Štemberger and Andrej Kovačič (Slovenia)</i></p> <p>Synchronizing Enterprise Resource Planning Systems and Business Processes: A Case of a New ERP Development Approach - <i>Björn Johansson (Sweden)</i></p> <p>A Universal Model-Based Solution for Describing and Handling Errors - <i>Sergejs Kozlovics (Latvia)</i></p>	<p><b><u>Empirical Evaluations</u></b> <i>Kaļķu1, Room 219</i> <b>Chair: Sven Carlsson</b></p> <p>Cloud Computing and Economic Growth in the Baltic Sea Region Countries - <i>Andrzej Kobylinski and Marcin Michalski (Poland)</i></p> <p>Analysis and Evaluation of Selected Shops with Organic Food in Poland - <i>Witold Chmielarz (Poland)</i></p> <p>Evaluating the Application of Service-Oriented Auditing in the B2G Domain: A Case Study - <i>Faiza Allah Bukhsh and Hans Weigand (Netherlands)</i></p> <p>ICT supporting daily physical activity - with special reference to pedometers in the Step-Shape project - <i>Eija Koskivaara, Raija Laukkanen and Olli Heinonen (Finland)</i></p>
12:00 – 13:30	Lunch	

<i>Time</i>	<i>Presentations, Location</i>	
13:30 – 15:10	<p><b><u>Business Processes</u></b> <i>Kaļķu 1, Room 201</i> <b>Chair: Dimitris Karagiannis</b></p> <p>Using Semantically Annotated Models for Supporting Business Process Benchmarking - <i>Hans-Georg Fill (United States)</i></p> <p>Performance Measurement Framework with Formal Indicator Denitions - <i>Aivars Niedritis, Laila Niedrite and Natalija Kozmina (Latvia)</i></p> <p>An Extension of BPMN Meta-model for Evaluation of Business Processes - <i>Azeem Lodhi, Veit Köppen and Gunter Saake (Germany)</i></p> <p>Business Process and Regulations: Approach to Linkage and Change Management - <i>Peteris Rudzajs and Ilze Buksa (Latvia)</i></p>	<p><b><u>Tools and Environments</u></b> <i>Kaļķu 1, Room 219</i> <b>Chair: Peter Forbig</b></p> <p>A Method for Documenting Modifications in ERP Systems - <i>Mārtiņš Eberšteins and Jānis Grabis (Latvia)</i></p> <p>Towards Open Graphical Tool-Building Framework - <i>Edgars Rencis, Janis Barzdins and Sergejs Kozlovics (Latvia)</i></p> <p>Modeling Secure Navigation in Web Information Systems - <i>Marianne Busch, Alexander Knapp and Nora Koch (Germany)</i></p> <p>On Implicitly Discovered OLAP Schema-Specific Preferences in Reporting Tool - <i>Natalija Kozmina and Darja Solodovnikova (Latvia)</i></p>
15:10 – 15:30	Coffee Break	
15:30 – 17:10	<p><b><u>Ontologies</u></b> <i>Kaļķu 1, Room 201</i> <b>Chair: Hans-Georg Fill</b></p> <p>Survey on Ontology Languages - <i>Diana Kalibatiene and Olegas Vasilecas (Lithuania)</i></p> <p>Scenarios for Evaluating a Semantic Project Management Approach - <i>Birgit Dippelreiter and Michael Pöttler (Austria)</i></p> <p>Advanced RDB-to-RDF/OWL mapping facilities in RDB2OWL - <i>Guntars Bumans and Karlis Cerans (Latvia)</i></p> <p>Export of Relational Databases to RDF Databases by Model Transformations - <i>Sergejs Rikacovs (Latvia)</i></p>	<p><b><u>Educational Issues</u></b> <i>Kaļķu 1, Room 219</i> <b>Chair: Horst Günther</b></p> <p>Using Antecedents of Offline Training Satisfaction to Explain the Intention to Use Online Learning Platform Features - <i>Olivier Loquineau, Aurélien Caplan, Karine Toumazeau, Christophe Zanetto, Marine Billiot and Frank Geert Goethals (France)</i></p> <p>Discovering of Users' Interests Evolution Patterns for Learning Goals Recommendation - <i>Jacek Malyszko, Dawid Weckowski and Witold Abramowicz (Poland)</i></p> <p>Towards E-Learning Capability Maturity Model - <i>Ludmila Penicina (Latvia)</i></p> <p>Competence Orientation in a Business Informatics International Master Program - <i>Jean-Hugues Chauchat (France) and Iryna Zolotaryova (Ukraine)</i></p>
17:10 – 19:00	Steering committee meeting <i>Kaļķu 1, Room 119</i>	
19:30	Dinner	

**Those who want to be guided to the dinner place meet at *Kaļķu 1* at 19:00.**

**Saturday, October 8, 2011**

Registration: 8:30 – 15:30 at Kaļķu 1 RTU Main Building

<i>Time</i>	<i>Presentations, Location</i>	
9:00 – 10:00	<b>Keynote:</b> <i>Prof. Dr. John Krogstie (Norway)</i> Business Information Systems Utilizing the Future Internet <i>Kaļķu 1, Room 201</i>	
10:00 – 10:20	Coffee break	
10:20 – 12:00	<p><b>Data Management</b> <i>Kaļķu 1, Room 201</i> <b>Chair: Laila Niedrite</b></p> <p>Using the Entity-Attribute-Value Model for OLAP Cube Construction - <i>Peter Thanisch (Finland), Tapio Niemi, Marko Niinimaki (Switzerland) and Jyrki Nummenmaa (Finland)</i></p> <p>Near Real-Time Data Warehousing with Multi-Stage Trickle and Flip - <i>Janis Zuters (Latvia)</i></p> <p>Data Consistency in Transactional Business Processes - <i>Andreas Lodde, Antoine Schlechter, Pascal Bauler and Fernand Feltz (Luxembourg)</i></p> <p>Parallel Tabu Search Algorithm for Data Structure Composition - <i>Eduard Babkin, Margarita Karpunina and Natalia Aseeva (Russian Federation)</i></p>	<p><b>Systems Approach</b> <i>Kaļķu 1, Room 219</i> <b>Chair: Kurt Sandkuhl</b></p> <p>Views on Scientific Workflows - <i>Mirko Sonntag, Katharina Gorlach, Dimka Karastoyanova, Frank Leymann, Polina Malets and David Schumm (Germany)</i></p> <p>Agile Business Process Management in Research Projects of Life Sciences - <i>Silke Holzmuller-Laue and Bernd Gode (Germany)</i></p> <p>Design of Decision Service Using Cause-and-Effect Business Process Analysis - <i>Olga Levina (Germany)</i></p> <p>A Conceptual Framework for Design Science Research - <i>Lukasz Ostrowski, Markus Helfert and Fakir Hossain (Ireland)</i></p>
12:00 – 13:30	Lunch	
13:30 – 14:15	<p><b>Knowledge and Stakeholders' Perspectives</b> <i>Kaļķu 1, Room 201</i> <b>Chair: Andrzej Kobyliniski</b></p> <p>Validating Organizational Knowledge Patterns: Case Study from Information Demand Modeling - <i>Kurt Sandkuhl (Germany)</i></p> <p>Analysis of Dynamic Interactions with External Parties During Maintenance of ERP Systems - <i>Igors Mikulovs and Janis Grabis (Latvia)</i></p> <p>Towards systematic reflection of data, information and knowledge - <i>Ligita Businska and Inese Supulniece (Latvia)</i></p>	<p><b>Miscellaneous</b> <i>Kaļķu 1, Room 219</i> <b>Chair: Eduard Babkin</b></p> <p>A Computer-aided Production System for Mass Customization in Fashion - <i>Jun-Ming Lu and Mao-Jiun Wang (Taiwan)</i></p> <p>Artificial Intelligence in Knowledge Management: Overview and Trends - <i>Ilze Birzniece (Latvia)</i></p> <p>Exploring risk factors in ERP maintenance projects - <i>Cristina Lopez and Jose Luis Salmeron (Spain)</i></p>
14:15 – 16:00	Coffee Break & Welcome to BIR2012 & Closing. <i>Kaļķu 1, Room 201</i>	

## MAPS

### On-Line Maps

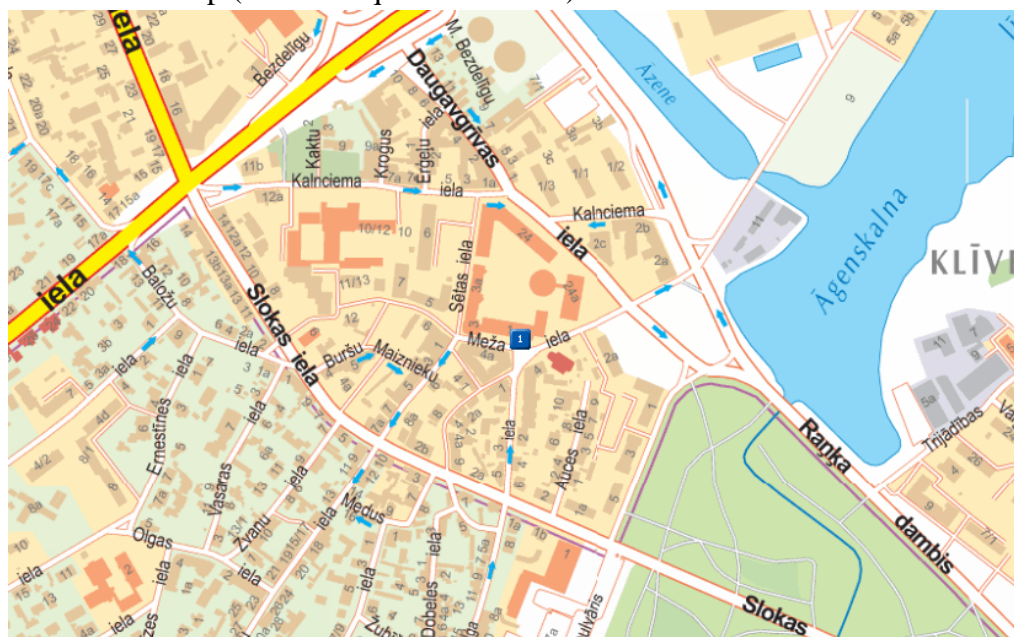
1. 1 Kaļķu street (Conference site - Main RTU building) <http://goo.gl/mgyNu>

- a. Offline map (see blue square marked 1)



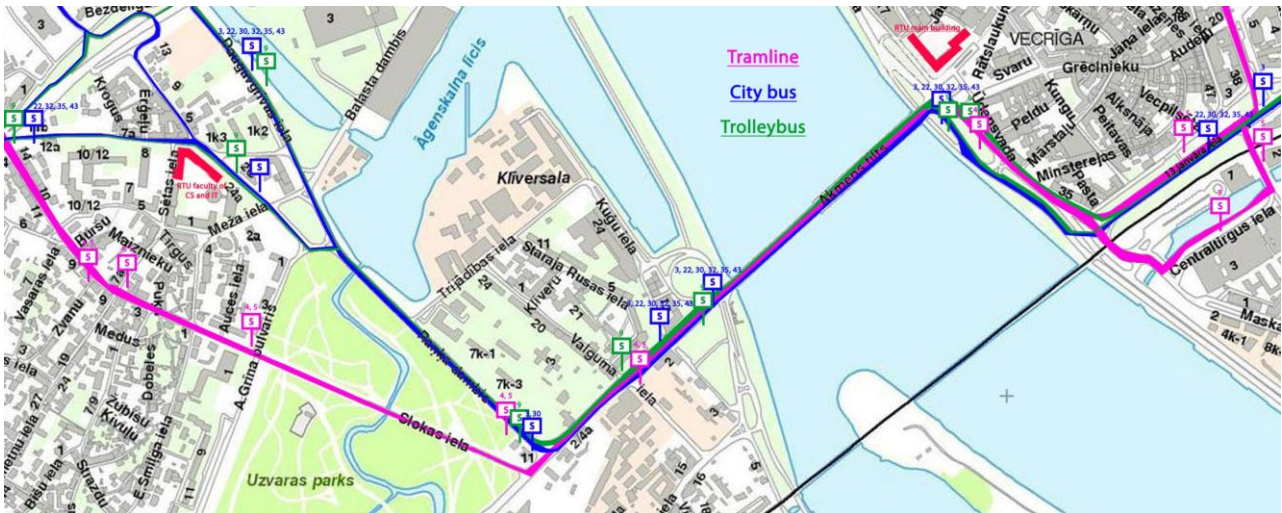
2. Meža 1/4 (Workshop site - Faculty of Computer Science and Information Technology) <http://goo.gl/cEWmh>

- a. Offline map (see blue square marked 1)



3. Directions from Meža 1/4 street to 1 Kaļķu street <http://goo.gl/4kJEb>

## Public Transportation Map Meža iela to Kaļķu iela



### The Types of Public Transportation You Can Use

There are trams, trolley-buses as well as city buses available in Riga. To go from the two main areas where BIR 2011 is held you can use the following transportation:

- Trams number 4 and 5;
- Trolleybus number 9;
- City buses number 3, 22, 30, 32, 35 and 43

To go from Meža iela to Kaļķu iela:

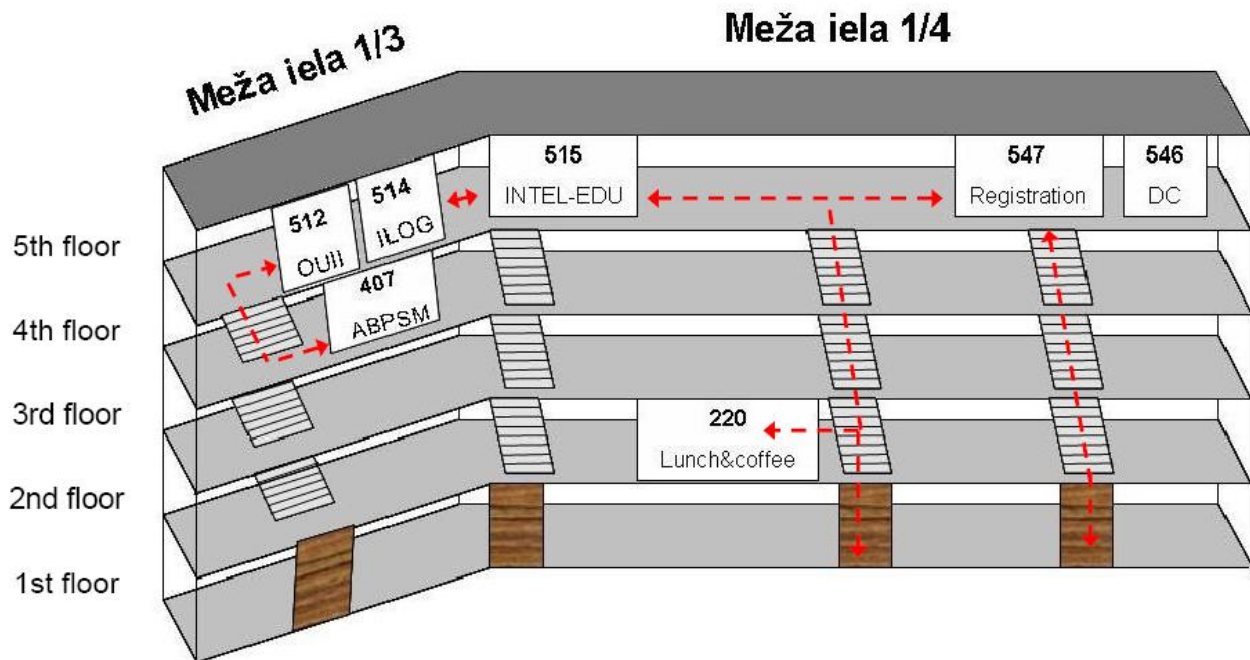
- Get on a tram near Zvanu iela and get off on the next stop after crossing the bridge
- Get on a bus or on a trolley-bus at Daugavgrīvas iela outside the RTU faculty of CS and IT courtyard and get off on the next stop after crossing the bridge

To go from Kaļķu iela to Meža iela:

- Get on a tram at 11. Novembra krastmala and get off at Nometņu iela
- Get on a trolley-bus at 11. Novembra krastmala and get off at Kalnciema iela
- Get on the bus at 11. Novembra krastmala and get off at the Kalnciema iela

Taxi - about LVL 10, Airport – City Center; Kaļķu iela – Meža iela: about LVL 4; Recommended company Red Cab, tel. +371 8383 (from mobile); +271 8001313 (from hotel)

## Area of the Faculty of Computer Science and Information Technology (Workshops, October 6)



## CONTACTS

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