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<th>Time</th>
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<tr>
<td>08:30-11:00</td>
<td>Registration</td>
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<td>Foyer, BEST WESTERN Santakos Hotel (J. Gruodzio str. 21)</td>
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<tr>
<td>09:00-09:15</td>
<td>Opening</td>
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<td>“Nemunas” Hall</td>
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<td>09:15-10:15</td>
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<td>10:20-11:00</td>
<td>Session 1</td>
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<td>“Arka” Hall Artificial Intelligence and Knowledge Engineering</td>
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<td>10:20-11:00</td>
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<td>“Neris” Hall Business Process Modelling, Analysis and Design</td>
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<td>“Nemunas” Hall Formal Analysis and Design Methods</td>
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<td>11:00-11:20</td>
<td>Coffee Break</td>
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<td>11:20-12:20</td>
<td>Session 4</td>
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<td>“Arka” Hall Requirements Engineering and Business Rules</td>
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<td>11:20-12:20</td>
<td>Session 5</td>
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<td>“Neris” Hall Information Technology in Teaching and Learning</td>
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<td>11:20-12:20</td>
<td>Session 6</td>
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<tr>
<td>12:20-13:30</td>
<td>Lunch</td>
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<td>13:30-14:50</td>
<td>Session 7</td>
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<td>13:30-14:50</td>
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<td>14:50-15:10</td>
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<td>15:10-16:30</td>
<td>Session 10</td>
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<td>“Arka” Hall Ontology, Conceptual Modelling and Databases</td>
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<td>15:10-16:30</td>
<td>Session 11</td>
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<td>“Neris” Hall Information Technology Applications and Computer Networks</td>
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<td>15:10-16:30</td>
<td>Session 12</td>
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<td>19:00</td>
<td>Conference Dinner</td>
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Thursday, September 13th

08:30-11:00, Registration

09:00-09:15, Opening
“Nemunas” Hall

Chairman of Informatics Engineering Doctoral Studies Committee Prof. Dr. Habil. Rimantas Šeinauskas

09:15-10:15, Key Note
“Nemunas” Hall

Foundations of the IS engineering theory
Speaker prof. dr. Saulius GUDAS

10:20-11:00, Sessions

Session 1. Artificial Intelligence and Knowledge Engineering, “Arka” Hall
Chaired by prof. dr. Robertas DAMASEVICIUS

1. AUTOMATION OF MERGING IN ERP REVISION CONTROL
   Algirdas Laukaitis

2. A VARIABLE NEIGHBOURHOOD SEARCH ENHANCEMENT FOR THE
   SHIFT SEQUENCE BASED METHOD OF THE PERSONAL SCHEDULING
   IN HOSPITALS
   Mindaugas Liogys and Antanas Zilinskas

Chaired by prof. dr. Saulius GUDAS

1. TOWARDS EVALUATING EFFICIENCY OF ENTERPRISE MODELING
   METHODS
   Banafsheh Khademhosseinieh and Ulf Seigerroth

2. ON THE MULTI-OBJECTIVE OPTIMIZATION AIDED DRAWING OF
   CONNECTORS FOR GRAPHS RELATED TO BUSINESS PROCESS
   MANAGEMENT
   Vytautas Jancauskas, Ausra Mackute-Varoneckiene, Audrius Varoneckas, and
   Antanas Zilinskas

Session 3. Formal Analysis and Design Methods, “Nemunas” Hall
Chaired by prof. dr. Alfonsas MISEVICIUS

1. EVALUATION OF ELASTICITY PARAMETERS FOR HETEROGENEOUS
   MATERIAL WITH PERIODIC MICROSTRUCTURE
   Dalia Calneryte

2. CHANGE IMPACT ANALYSIS OF FEATURE MODELS
### Session 4. Requirements Engineering and Business Rules, “Arka” Hall

Chaired by prof. dr. Lina NEMURAITE

1. **USING A SEMANTIC WIKI TO IMPROVE THE CONSISTENCY AND ANALYZABILITY OF FUNCTIONAL REQUIREMENTS**  
   Jing Ma, Wuping Yao, Zheying Zhang, and Jyrki Nummenmaa

2. **TOWARDS SOFTWARE TESTING PROCESS IMPROVEMENT FROM REQUIREMENTS**  
   Kristina Smilgyte and Rimantas Butleris

3. **EXTRACTING BUSINESS RULES FROM EXISTING ENTERPRISE SOFTWARE SYSTEM**  
   Kestutis Normantas and Olegas Vasilecas

### Session 5. Information Technology in Teaching and Learning, “Neris” Hall

Chaired by assoc. prof. dr. Ruta PETRAUSKIENE

1. **INFLUENCE OF BLENDED LEARNING ON OUTCOMES OF POSTGRADUATE STUDIES**  
   Algimantas Venckauskas, Audrone Janaviciute, Stasys Maciulevicius, and Irena Mikuckiene

2. **TWO-STAGE GENERATIVE LEARNING OBJECTS**  
   Vytautas Stuikys and Renata Burbaite

3. **USABILITY EVALUATION OF A LMS MOBILE WEB INTERFACE**  
   Daniel Ivanc, Radu Vasiu, and Mihai Onita

### Session 6. Formal Analysis and Design Methods, “Nemunas” Hall

Chaired by prof. habil. dr. Antanas ZILINSKAS

1. **A GRAPH TRANSFORMATION APPROACH FOR TESTING TIMED SYSTEMS**  
   Hiba Hachichi, Ilham Kitouni, Kenza Bouaroudj, and Djamel-Eddine Saidouni

2. **FSM BASED FUNCTIONAL TEST GENERATION FRAMEWORK FOR VHDL**  
   Vacius Jusas and Tomas Neverdauskas

3. **SEGMENTATION ALGORITHM FOR ALGEBRAIC PROGRESSIONS**  
   Dovile Karaliene, Zenonas Navickas, and Alfonsas Vainoras

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**12:20-13:30, Lunch,**
### Session 7. Artificial Intelligence and Knowledge Engineering, “Arka” Hall

Chaired by assoc. prof. dr. Algirdas Laukaitis

1. **COMPUTATIONAL STUDY OF FOUR GENETIC ALGORITHM VARIANTS FOR SOLVING THE QUADRATIC ASSIGNMENT PROBLEM**  
   Alfonsas Misevicius and Evaldas Guogis

2. **GENERATING XPATH EXPRESSIONS FOR STRUCTURED WEB DATA RECORD SEGMENTATION**  
   Tomas Grigalis and Antanas Čenys

3. **NEWS MEDIA ANALYSIS USING FOCUSED CRAWL AND NATURAL LANGUAGE PROCESSING: CASE OF LITHUANIAN NEWS WEBSITES**  
   Tomas Krilavičius, Žygimantas Medelis, Jurgita Kapočiūtė-Dzikienė, and Tomas Žalandauskas

4. **GENERATING HIGH QUALITY CANDIDATE SETS BY TOUR MERGING FOR THE TRAVELING SALESMAN PROBLEM**  
   Andrius Blazinskas and Alfonsas Misevicius

### Session 8. Information Technology in Teaching and Learning, “Neris” Hall

Chaired by assoc. prof. dr. Danguole RUTKAUSKIENE

1. **INTERDISCIPLINARITY IN E-LEARNING PLATFORMS BASED ON TEXTUAL ANNOTATION**  
   Andrei Marius Gabor and Radu Vasiu

2. **COMPETITION BASED ONLINE SOCIAL LEARNING**  
   Tomas Blazauskas, Virginija Limanauskiene, and Vitalija Kersiene

3. **AGENT SYSTEM AS COMPLEX SUPPORT FOR THE LEARNING PROCESS**  
   Aleksandras Targamadze and Ruta Petrauskiene

4. **ICT ARCHITECTURE FOR ONLINE LEARNING APPROACH**  
   Danguole Rutkauskiene, Daina Gudoniene, Gytis Cibulskis, and Oleksandr Suk

### Session 9. Information and Software Systems Engineering, “Nemunas” Hall

Chaired by prof. dr. Vacius JUSAS

1. **ADAPTATION OF THE PRESENTATION IN A MULTI-TENANT WEB INFORMATION SYSTEM**  
   Aivars Niedritis and Laila Niedrite

2. **DOMAIN DRIVEN DEVELOPMENT AND FEATURE DRIVEN DEVELOPMENT FOR DEVELOPMENT OF DECISION SUPPORT SYSTEMS**  
   Paulius Danenas and Gintautas Garsva

3. **FROM UML COMMUNICATION DIAGRAMS TO ASPECT-ORIENTED COMMUNICATION DIAGRAMS USING GRAPH TRANSFORMATION**
Mouna Aouag, Wafa Chama, and Allaoua Chaoui

4. METHODOLOGY AND EXPERIMENTS TO TRANSFORM HETEROGENEOUS META-PROGRAM INTO META-META-PROGRAMS
Vytautas Stuikys and Kristina Bespalova

14:50-15:10, Coffee Break

15:10-16:30, Sessions

Session 10. Ontology, Conceptual Modelling and Databases, “Arka” Hall
Chaired by prof. dr. Jyrki NUMMENMAA

1. METHODOLOGY FOR DEVELOPING TOPIC MAPS BASED ON PRINCIPLES OF ONTOLOGY ENGINEERING
Gintare Bernotaityte, Lina Nemuraite, and Milda Stankeviciene

2. REQUIREMENTS FOR SEMANTIC BUSINESS VOCABULARIES AND RULES FOR TRANSFORMING THEM INTO CONSISTENT OWL2 ONTOLOGIES
Jaroslav Karpovic, Lina Nemuraite, and Milda Stankeviciene

3. REPRESENTING AND TRANSFORMING SBVR QUESTION PATTERNS INTO SPARQL
Algirdas Sukys, Lina Nemuraite, and Bronius Paradauskas

4. THE TEN BEST PRACTICES FOR TEST CASE PRIORITIZATION
Cagatay Catal

Session 11. Information Technology Applications and Computer Networks, “Neris” Hall
Chaired by assoc. prof. dr. Tomas KRILAVICIUS

1. SERVICE-ORIENTED ARCHITECTURE FOR DESIGNING OF PHYSICAL SYSTEMS WITH EFFICIENT POWER CONSUMPTION
Tomas Blazauskas, Tomas Iesmantas, and Robertas Alzbutas

2. VOICE CONTROLLED INTERFACE FOR THE MEDICAL-PHARMACEUTICAL INFORMATION SYSTEM
Vytautas Rudzionis, Kastytis Ratkevicius, Algimantas Rudzionis, Rytis Maskeliunas, and Gailius Raskinis

3. DESIGN OF A NEURAL INTERFACE BASED SYSTEM FOR CONTROL OF ROBOTIC DEVICES
Ignas Martisius, Mindaugas Vasiljevas, Kestutis Sidlauskas, Rutenis Turcinas, Ignas Plauska, and Robertas Damasevicius

4. INFLUENCE OF NETWORK COMMUNICATIONS TO THE FINAL PERFORMANCE OF GRID VISUALIZATION SOFTWARE
Arnas Kaceniauskas and Ruslan Pacevic
Session 12. Information and Software Systems Engineering, “Nemunas” Hall

Chaired by prof. habil. dr. Vytautas Stuikys

1. **THE BUSINESS GRAPH PROTOCOL**
   Daniel Ritter

2. **DISTRIBUTED SYSTEM AUTOMATED TESTING DESIGN**
   Robertas Jasaitis and Eduardas Bareisa

3. **GENERATING TEST DATA USING SYMBOLIC EXECUTION: CHALLENGES WITH FLOATING POINT DATA TYPES**
   Justinas Prelgauskas and Eduardas Bareisa

4. **QUALITY-ORIENTED PRODUCT LINE MODELING USING FEATURE DIAGRAMS AND PREFERENCE LOGIC**
   Paulius Paskevicius, Robertas Damasevicius, and Vytautas Stuikys

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19:00, **Conference Dinner**

Restaurant “Sadute”, Rotuses sq. 4
Friday, 14th September, 2012

Industrial Tutorials

Partners

Programme

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<td>08:30-09:00</td>
<td>Registration</td>
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<tr>
<td>09:00-10:00</td>
<td><strong>Key note</strong></td>
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<td>09:00-10:00</td>
<td><em>Why do we need IT architects and why architects are important?</em></td>
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<td>Michael Barnby, CSC</td>
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<td>10:00-10:30</td>
<td>*More demos &amp; less euros in new product development: making</td>
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<td>the mission possible (a DEMOLA/VILNIUS case study)*</td>
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<td>Andrius Pleckaitis, INFOBALT</td>
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<td>10:30-10:50</td>
<td>Coffee Break</td>
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<tr>
<td>10:50-11:35</td>
<td><strong>Development and implementation practice</strong></td>
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<td>10:50-11:35</td>
<td><em>Deutsche Telekom: best practice of COTS implementation</em></td>
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<td>dr. Tadas Zobakas, T-Systems International GmbH</td>
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<td>11:35-12:20</td>
<td><em>Productivity through the promotion of social networking principles</em></td>
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<td>Teresa Stanulevic-Borovska, Blue Bridge Code</td>
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<td>Time</td>
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<td>12:20-13:10</td>
<td>Lunch Break</td>
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<td><strong>Business and IT modeling</strong></td>
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| 13:10-13:55  | *Modeling Business Technologies: Bridge the Gap Between Business and IT Architecture*  
Rokas Bartkevicius, *No Magic Europe*        |
| 13:55-14:40  | *Jump-start software development projects using DSL modelling*        
Dovydas Jarukaitis, Gediminas Geigalas, *UAB ATEA* |
| 14:40-15:00  | Coffee Break                                                           |
|              | **Software engineering methods**                                       |
| 15:00-15:45  | *GIS as a platform for IT solutions*                                   
Vaida Masiulionyte, Rolandas Melkunas, *UAB Hnit-Baltic* |
| 15:45-16:25  | *From manual testing to automated test scripts to executable specification in 5 months: a case study*  
Paulius Stulpinas |
|              | **Discussion Panel**                                                   |
| 16:25-17:25  | Discussion Panel: *Business vs. IT: how to bridge the gap?*           
Moderator: Rokas Bartkevicius, *No Magic Europe* |
| 17:25-18:00  | *Informal Discussions with wine, coffee, and snacks*                   |