

# 1 Conference Timetable

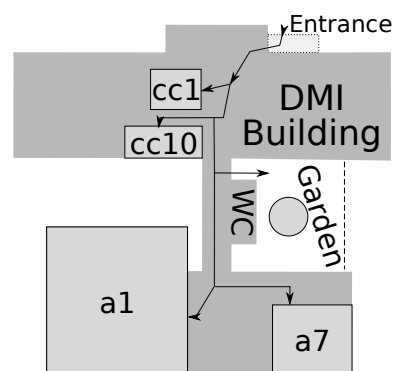
The changes compared to the "Abstracts and program" booklet are marked with strikethru and "++".  
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## 1.1 Overview

Full papers have 25 minutes for presentations, while short papers have 15 minutes.

Lecture halls (all on the ground floor of the Department of Mathematics and Informatics – DMI): *a1* – Amphitheater 1, *a7* – Amphitheater 7, *cc1* – Computer Center 1, *cc10* – Computer Center 10.

16/09/2012	
10:30 – 11:00	<i>a1</i> : CLoBL <i>cc10</i> : SQAMIA
11:30 – 13:00	<i>a1</i> : CLoBL <i>cc10</i> : SQAMIA
13:00 – 14:30	– Lunch break –
14:30 – 16:00	<i>a1</i> : CA1 <i>cc10</i> : SQAMIA
16:00 – 16:30	– coffee break –
16:30 – 18:30	<i>a1</i> : AI1 <i>cc10</i> : ISR1
Reception	



17/09/2012		18/09/2012	
09:00 – 09:30 Official Conference Opening			
09:30 – 10:15	<i>a1</i> : Mauro Pezze	<i>a1</i> : Bela Stantic	
10:15 – 11:00	<i>a1</i> : Hussein Zedan	<i>a1</i> : Hans-Dieter Burkhard	
10:45 – 11:15		– coffee break –	
11:30 – 13:00	<i>a1</i> : SE1 <i>cc10</i> : AA	<i>a1</i> : AI3 <i>cc10</i> : OS1	
13:00 – 14:30		– Lunch break –	
14:30 – 16:00	<i>a1</i> : SE2 <i>cc10</i> : CA2	<i>a7</i> : TUT <i>cc10</i> : ISR2	Steering Committee
16:00 – 16:30		– coffee break –	
16:30 – 18:30	<i>a1</i> : LT <i>cc10</i> : AI2	<i>a7</i> : TUT <i>cc10</i> : DIS2	
City Tour		Dinner	

19/09/2012			
09:00 – 09:45	<i>a1</i> : Klaus Bothe	<i>cc10</i> : WASA	
09:45 – 10:30	<i>a1</i> : Vladan Devedžić	<i>cc10</i> : WASA	
10:30 – 11:00		– coffee break –	
11:00 – 12:30	<i>a1</i> : CA3 <i>cc1</i> : DIS2	<i>cc10</i> : WASA	
Excursion			

## 1.2 Saturday, September 15

17:00 – 19:30 Registration, in front of Hall I

## 1.3 Sunday, September 16

- 09:00 – 14:00 Registration, in front of Hall I
- 10:30 – 13:00 **Workshop: Computational Linguistics and Natural Language Processing of Balkan Languages (CLOBL)** a1  
*Session Chair: Cvetana Krstev and Katerina Zdravkova*
- Serbian Text Categorization Using Byte Level n-Grams  
*Jelena Graovac*
  - Information Extraction from the Weather Reports in Serbian  
*Staša Vujičić Stanković and Vesna Pajić*
  - Automatic Recognition of Composite Verb Forms in Serbian  
*Bojana Đorđević*
  - Recognition and Normalization of Temporal Expressions in Serbian Texts  
*Jelena Jaćimović*
  - An Approach to Development of Bilingual Lexical Resources  
*Ranka Stanković, Ivan Obradović and Aleksandra Trtovac*
  - An Authorship Attribution for Serbian  
*Anđelka Zečević and Miloš Utvić*
- 10:30 – 11:30++ **Workshop: Software Quality Analysis, Monitoring, Improvement, and Applications, (SQAMIA) – Special Session** cc10  
*Session Chair: Zoran Budimac*
- ++ ○ Studying Software Evolution Using Artefacts' Shared Information Content  
*Tom Arbuckle*
- 11:30 – 13:00 **Workshop: Software Quality Analysis, Monitoring, Improvement, and Applications, (SQAMIA) – Session 1** cc10  
*Session Chair: Marjan Heričko and Zoran Budimac*
- Adoption of object-oriented software metrics for ontology evaluation  
*Rok Žontar, Marjan Heričko*
  - Agile Software Testing Technologies in a Large Scale Project  
*Bojana Koteska, Anastas Mishev*
  - Rule-Based Assignment of Comments to AST Nodes in C++ programs  
*Tamás Cséri, Zalán Szügyi, Zoltán Porkoláb*
  - ISO Software Quality Standards and Certification  
*Bisera Dugalic, Anastas Mishev*
- 13:00 – 14:30 Lunch break
- 14:30 – 16:00 **Workshop: Software Quality Analysis, Monitoring, Improvement, and Applications, (SQAMIA) – Session 2** cc10  
*Session Chair: Hannu Jaakkola and Zoran Budimac*
- Analyzing Structural Software Changes: A Case Study  
*Črt Gerlec, Marjan Heričko*
  - Security Analysis Regarding Cross-Site Scripting on Internet Explorer  
*Adriana Neagoș and Simona Motogna*
  - SSQSA architecture  
*Zoran Budimac, Gordana Rakić, Miloš Savić*
  - Notes on the Parallels Between Biological and Software Evolution  
*Ladislav Samuelis*
- 14:30 – 16:00 **CA1: Computer Applications in ...** a1  
*Session Chair: Sonja Ristić*
- ... Society**
- ~~Risks affecting the development of the information society in the Republic of Moldova: insights from a Delphi survey~~  
~~(full) Horatiu Dragomirescu and Ion Tighineanu~~

**... Business**

- A Software Tool for Building a Statistical Prefix Processor  
*(full) Nikitas Karanikolas, Michael Vassilakopoulos and Nektarios Giannoulis*
- Social Networking Software use in Social Media Marketing vs. Traditional Marketing: Case Study in Macedonia  
*(short) Bekim Fetaji and Amir Demiri*

**... Government**

- Framework for Open Data Mining in e-Government  
*(short) Petar Milić, Nataša Veljković and Leonid Stoimenov*

**... Medicine**

- Extracting Drug Adverse and Beneficial Reactions in Pediatric Population from Healthcare Social Network  
*(short) Jelena Hadzi-Puric and Jeca Grmusa*

16:00 – 16:30 Coffee break

16:30 – 18:00 **AI1: Artificial Intelligence**

a1

*Session Chair: Vladimir Kurbalija*

- OECEP: Enriching Complex Event Processing with Domain Knowledge from Ontologies  
*(full) Sebastian Binnewies and Bela Stantic*
- A distributed asynchronous and privacy preserving neural network ensemble selection approach for peer-to-peer data mining  
*(full) Yiannis Kokkinos and Konstantinos G. Margaritis*
- An Approach to Automated Reparation of Failed Proof Attempts in Propositional Linear Logic Sequent Calculus  
*(full) Tatjana Lutovac*

16:30 – 18:00 **ISR1: Information Storage and Retrieval and**

cc10

*Session Chair: Miloš Radovanović*

- Efficient dataset size reduction by finding homogeneous clusters  
*(full) Stefanos Ougiaroglou and Georgios Evangelidis*
- Discovery and Evaluation of Students' Profiles with Machine Learning  
*(full) Evis Trandafili, Alban Allkoçi, Elinda Kajo and Aleksandër Xhuvani*
- Comparison of Information Retrieval Models for Question Answering  
*(full) Jasmina Armenska and Katerina Zdravkova*

**Computer Graphics**

- A Novel Algorithm for an Image Processing System in Entomology  
*(full) Marjan Kindalov, Ana Madevska Bogdanova and Zarko Erakovic*
- The Teaching of Geography using Dynamic Geometry  
*(short) Đorđe Herceg, Vera Herceg-Mandić and Davorka Radaković*

19:15 – 21:15 Welcome Reception

## 1.4 Monday, September 17

- 09:00 – 14:00 Registration, in front of Hall I
- 09:00 – 09:30 **Official conference opening**
- 09:30 – 10:15 **Invited Lecture 1** a1  
*Session Chair: Mirjana Ivanović*
- From Off-line to Continuous On-line Maintenance  
*Mauro Pezzè*
- 10:15 – 11:00 **Invited Lecture 2** a1  
*Session Chair: Zoran Budimac*
- Secure and Context-Aware Workflow System  
*Hussein Zedan*
- 11:00 – 11:30 Coffee break
- 11:30 – 13:00 **SE1: Software Engineering** a1  
*Session Chair: Ivan Luković*
- Formal Modelling of a Bio-Inspired Paradigm Capable of Exhibiting Emergence  
*(full) Konstantinos Rousis, George Eleftherakis, Ognjen Paunovski and Tony Cowling*
  - Community Detection and Analysis of Community Evolution in Apache Ant Class Collaboration Networks  
*(full) Miloš Savić, Miloš Radovanović and Mirjana Ivanović*
  - Statically Typed Matrix  
*(full) Predrag S. Rakić, Lazar Stričević and Zorica Suvajdžin Rakić*
  - An Evaluation of Java Code Coverage Testing Tools  
*(short) Elinda Kajo-Mece and Megi Tartari*
- 11:30 – 13:00 **AA: Analysis of Algorithms and Problem Complexity** cc10  
*Session Chair: Mirjana Ivanović*
- Virtualized Environments in Cloud Can Have Superlinear Speedup  
*(full) Sasko Ristov, Marjan Gusev, Magdalena Kostoska and Kiril Kirovski*
  - Comparative Performance Evaluation of The AVL and Red-black Trees  
*(full) Svetlana Štrbac-Savić and Milo Tomašević*
  - The Evaluation of Performance in Flow Label and Non-Flow Label Approach Based on IPv6 Technology  
*(short) Ariana Bejleri, Igli Tafaj, Ermal Beqiri, Julian Fejzaj and Aleksander Biberaj*
  - Logical Representation of Dependencies of Items and The Complexity of Customer Sets  
*(short) János Demetrovics, Hua Nam Son and Ákos Gubán*
- 13:00 – 14:30 Lunch break
- 14:30 – 16:00 **SE2: Software Engineering** a1  
*Session Chair: George Eleftherakis*
- Evaluation of Tools for Automated Unit Testing for Applications in OSGi  
*(short) František Geletka, Ladislav Samuelis, and Jozef Vojtko*
  - A Hoare-Style Verification Calculus for Control State ASMs  
*(short) Werner Gabrisch and Wolf Zimmermann*
  - Communication in Machine-to-Machine Environments  
*(short) Iva Bojic, Mario Kusek, Gordan Jezic, Sasa Desic and Darko Huljenic*
  - User-Friendly Menu for New-Age Mobile Phones  
*(short) Ivan Peric and Oliver Sipos*
  - Layout Proposal for One-Handed Device Interface  
*(short) Oliver Sipos, Ivan Peric and Dragan Ivetic*
- 14:30 – 16:00 **CA2: Computer Applications in ...** cc10  
*Session Chair: Stelios Xinogalos*

**... Business**

- Management, Communications and Security Policy in Mobile Database Systems  
(full) *Vigan Raça, Betim Çiço and Majlinda Fetaji*
- Analyzing the Selection and Dynamic Composition of Web Services in E-commerce Transactions  
(full) *Nikolaos Vesyropoulos and Christos K. Georgiadis*
- An Approach to the Specification of User Interface Templates for Business Applications  
(full) *Sonja Ristić, Ivan Luković, Slavica Aleksić, Jelena Banović and Ali Al-Dahoud*

**... Education**

- A Software Tool that Helps Teachers in Handling, Processing and Understanding the Results of Massive Exams  
(short) *Marko Mišić, Marko Lazić and Jelica Protić*

16:00 – 16:30 Coffee break

16:30 – 18:30 **LT: Languages and Techniques** a1*Session Chair: Zoran Budimac*

- Parameterized Verification of Open Procedural Programs  
(full) *Aleksandar Dimovski*
- Performance Study of Matrix Computations using Multi-core Programming Tools  
(full) *Panagiotis Michailidis and Konstantinos G. Margaritis*
- Recent Advances Delivered by HTML 5 in Mobile Cloud Computing Applications: A Survey  
(full) *Stelios Xinogalos, Kostas E. Psannis and Angelo Sifaleras*
- Fuzzy XML with Implementation  
(short) *Goran Panić, Miloš Racković and Srđan Škrbić*
- Protection of Web Applications Using Aspect Oriented Programming and Performance Evaluation  
(short) *Elinda Kajo-Mece, Lorena Kodra, Enid Vrenozi and Bojken Shehu*

**Computer Graphics (+)**

- + + ○ A Novel Algorithm for an Image Processing System in Entomology  
(full) *Marjan Kindalov, Ana Madevska Bogdanova and Zarko Erakovic*

16:30 – 18:30 **AI2: Networks and** cc10*Session Chair: Petros Kefalas*

- + + ○ Implementation and Evaluation of a Sleep-Proxy for Energy Savings in Networked Computers  
(short) *Enida Sheme, Marin Aranitasi and Neki Frasheri*

**Artificial Intelligence**

- A Knowledge Based Approach for Handling Risk Management  
(full) *Adrian Solomon, Panayiotis Ketikidis and Alok Choudhary*
- Recognition and Normalization of Some Classes of Named Entities in Serbian  
(full) *Cvetana Krstev, Jelena Jaćimović and Duško Vitas*
- Optimising Flash Non-Volatile Memory using Machine Learning: A Project Overview  
(short) *Tom Arbuckle, Damien Hogan and Conor Ryan*
- The Modification of Genetic Algorithms for Solving the Balanced Location Problem  
(short) *Vladimir Filipović, Jozef Kratica, Aleksandar Savić and Đorđe Dugošija*

**Computer Application in Education**

- ~~LIETAP~~ Model for an Adaptive Tutoring System  
(short) *Eugenia Kovatcheva*

19:00 City tour

## 1.5 Tuesday, September 18

- 09:00 – 14:00 Registration, in front of Hall I
- 09:30 – 10:15 **Invited Lecture 3** a1  
*Session Chair: Mirjana Ivanović*
- An Implicit Approach to Deal with Periodically Repeated Data  
*Bela Stantic*
- 10:15 – 11:00 **Invited Lecture 4** a1  
*Session Chair: Zoran Budimac*
- Soccer Playing Robots for (e-)Learning  
*Hans-Dieter Burkhard*
- 10:30 – 10:45+ **BCI 2013, Announcement and presentation** a1
- 11:00 – 11:30 Coffee break
- 11:30 – 13:00 **AI3: Artificial Intelligence** a1  
*Session Chair: Hans-Dieter Burkhard*
- Formal Modelling of Agents acting under Artificial Emotions  
*(full) Petros Kefalas, Ioanna Stamatopoulou and Dionysis Basakos*
  - Time Series Mining in a Psychological Domain  
*(full) Vladimir Kurbalija, Hans-Dieter Burkhard, Mirjana Ivanović, Charlotte Meyer, Jens Nachtwei and Lidija Fodor*
  - Predictive Complex Event Processing: A Conceptual Framework for Combining Complex Event Processing and Predictive Analytics  
*(full) Lajos Jenő Fülöp, Gabriella Tóth, László Vidács, Árpád Beszédes, Hunor Demeter, Lóránt Farkas, Tibor Gyimothy and Gergő Balogh*
  - Reservoir Sampling Techniques in Modern Data Analysis  
*(short) Anže Pečar, Miha Zidar and Matjaž Kukar*
- 11:30 – 13:00 **OS1: Operating Systems and** cc10  
*Session Chair: Marjan Gusev Betim Çiço*
- A Parallel Processing of Spatial Data Interpolation on Computing Cloud  
*(full) Vladimír Siládi, Ladislav Huraj, Eduard Vesel and Norbert Polčák*
  - Robust Moldable Scheduling Using Application Benchmarking for Elastic Environments  
*(short) Ibad Kureshi, Violeta Holmes and David Cooke*
  - A Review of Disc Scrubbing and Intra Disc Redundancy Techniques for Reducing Data Loss in Disc File Systems  
*(short) Genti Daci and Aisa Bezhani*
- Networks**
- Implementation and Evaluation of a Sleep-Proxy for Energy Savings in Networked Computers  
*(short) Enida Sheme, Marin Aranitasi and Neki Frasherri*
  - Analyses of QoS Routing Approach and the Starvation's Evaluation in LAN  
*(short) Ariana Bejleri, Igli Tafaj, Aleksander Biberaj, Ermal Beqiri and Julian Fejzaj*
- 13:00 – 14:30 Lunch break
- 14:45 – 15:45+ **Steering committee meeting** Teachers' Club – II floor
- 14:30 – 18:30 **Tutorial: Automated Personality Classification – Data mining in Social Networks** a7  
*Aleksandar Kartelj, Vladimir Filipović, Veljko Milutinović*
- 14:30 – 16:00 **ISR2: Information Storage and Retrieval** cc10  
*Session Chair: Srđan Škrbić Christos K. Georgiadis*
- Data Model for Consortial Circulation in Libraries  
*(short) Danijela Tešendić*

- Applying MDA in Developing Intermediary Service for Data Retrieval  
(short) *Danijela Boberić Krstićev*
- A BIBO Ontology Extension for Evaluation of Scientific Research Results  
(short) *Bojana Dimić Surla, Milan Segedinac and Dragan Ivanović*
- Collective Information Extraction using First-Order Probabilistic Models  
(short) *Slavko Žitnik, Lovro Šubelj, Dejan Lavbič, Aljaž Zrnec and Marko Bajec*
- Cloud Computing Interoperability Approaches – Possibilities and Challenges  
(short) *Magdalena Kostoska, Marjan Gusev, Sasko Ristov and Kiril Kiroski*

16:00 – 16:30 

Coffee break
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16:30 – 18:00 **DIS1: Database and Information Systems and**

*cc10*

*Session Chair: Christos K. Georgiadis Tomáš Pitner*

- Privacy-Aware eLearning-Enviroments-Based-on-Hippocratic-Database-Principles  
(full) *Jasmin Azemović*
- Insider Threats in Corporate Environments:A case study for Data Leakage Prevention  
(short) *Veroniki Stamati-Koromina, Christos Ilioudis, Demosthenes Stamatis, Christos K. Georgiadis and Richard Overill*
- ~~S-Suite: A Multipart Service Oriented Architecture for The Car Rental Sector~~  
(short) ~~*Margarita Karkali and Michalis Vazirgiannis*~~
- + + ○ Challenging Issues of UCON in Modern Computing Environments  
(full) *Christos Grompanopoulos and Ioannis Mavridis*

#### **Computer Applications in Government**

- Growth rate analysis of e-Government development  
(full) *Kiril Kiroski, Marjan Gushev, Magdalena Kostoska and Sasko Ristov*
- Integrating Serbian Public Data into the LOD Cloud  
(full) *Valentina Janev, Uroš Milošević, Mirko Spasić, Sanja Vraneš, Jelena Milojković and Branko Jireček*

19:20 

Gathering in front of the Department building for the dinner
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20:00 

Conference Dinner – Restaurant “Terasa”, Petrovaradin Fortress
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## 1.6 Wednesday, September 19

- 09:00 – 11:00 Info desk, in front of Hall I
- 09:00 – 09:45 **Invited Lecture 5** a1  
*Session Chair: Mirjana Ivanović*
- Create, Collect and Share Course Materials Across Universities: Does it Work Successfully?  
*Klaus Bothe*
- 09:45 – 10:30 **Invited Lecture 6** a1  
*Session Chair: Zoran Budimac*
- TEL research projects  
*Vladan Devedžić*
- 09:00 – 10:30 **Workshop on Applications of Software Agents, WASA, session 1** cc10  
*Session Chair: Maria Ganzha and Costin Bădică*
- + + ○ Developing Software Agents Using Enterprise JavaBeans  
*Dejan Mitrović, Mirjana Ivanović, Milan Vidaković, Ali Al-Dahoud*
  - Neuroevolution based Multi-Agent System for Micromanagement in Real-Time Strategy Games  
*Iuhasz Gabriel, Viorel Negru, Daniela Zaharie*
  - A Set-Based Approach to Negotiation with Concessions  
*Costin Bădică and Amelia Bădică*
  - Using Jason to Develop Declarative Prototypes of Automated Negotiations  
*Alex Muscar, Laura Surcel, Costin Bădică*
  - GliderAgent 2.0—Agent-Based Glider Pilot Support System for Android Devices  
*Maria Ganzha, Mariusz M. Mesjasz, Marcin Paprzycki*
- 10:30 – 11:00 Coffee break
- 11:00 – 12:30 **Workshop: WASA – session 2** cc10  
*Session Chair: Marcin Paprzycki and Mirjana Ivanović*
- + + ○ GliderAgent 2.0 – Agent-Based Glider Pilot Support System for Android Devices  
*Maria Ganzha, Mariusz M. Mesjasz, Marcin Paprzycki*
  - Applying Saaty’s Multicriterial Decision Making Approach in Grid Resource Management  
*Maria Ganzha, Marcin Paprzycki, Katarzyna Wasielewska*
  - New Outlook on Agent-Based Travel Support Systems  
*Maria Ganzha, Mariusz M. Mesjasz, Marcin Paprzycki*
  - Service Agents for Calendar Exchange  
*Magdalena Kostoska, Goran Velkoski, Krste Bozinoski, Sasko Ristov, Marjan Gusev*
  - Method for Optimizing Communication Costs in ACODA Using Simulated Annealing  
*Costin Bădică, Sorin Ilie, Mirjana Ivanović*
  - ~~Developing Software Agents Using Enterprise JavaBeans~~  
~~*Dejan Mitrović, Mirjana Ivanović, Milan Vidaković, Ali Al-Dahoud*~~
- 11:00 – 12:30 **CA3: Computer Applications in Education** a1  
*Session Chair: Katerina Zdravkova*
- International Educational Cooperation – One Possible Model  
*(full) Klaus Bothe, Zoran Putnik and Betim Çiço*
  - Modeling the Characteristics of a Learning Object for Use within e-Learning Applications  
*(full) George Nikolopoulos, Georgia Solomou, Christos Pierrakeas and Achilles Kameas*
  - Programming Techniques and Environments in a Technology Management Department  
*(full) Stelios Xinogalos*
  - ~~Program Assessment via a Capstone Project~~  
~~*(short) John Galletly, Dimitar Christozov, Volin Karagiozov and Stoyan Bonev*~~
- 11:00 – 12:30 **DIS2: Database and Information Systems** cc1  
*Session Chair: Tomáš Pitner Srđan Škrbić*



- Correlation between Soft Organizational Features and Development of ICT Infrastructure  
*(full) Mladen Čudanov, Ivan Todorović and Ondrej Jaško*
- ~~Challenging Issues of UCON in Modern Computing Environments~~  
~~*(full) Christos Grompanopoulos and Ioannis Mavridis*~~
- Information System Monitoring and Notifications using Complex Event Processing  
*(full) Filip Nguyen and Tomáš Pitner*
- Storing XML Documents in Databases Using Existing Object-Relational Features  
*(short) Dušan Petković*

12:30 – 23:00 

Excursion to Zrenjanin and <i>Carska bara</i>
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<i>Lunch packet and dinner included</i>
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**Closing session**