

# 1<sup>st</sup> EWG-DSS International Conference on Decision Support System Technology – Program



<b>Day 1</b>	<b>Wednesday May 27<sup>th</sup>, 2015</b>
<b>From 08:30</b>	<p><b>Registration / Distribution of Conference Material</b></p> <p><b>ICDSST 2015 Registration Desk</b> Faculty of Organisational Sciences – <b>Main Hallway</b> Jove Ilića 154, 11000 Belgrade</p>
	<b>Session 1 – ICDSST 2015 - Conference Opening</b> <b>Room 201</b>
<p><b>Session 1</b></p> <p><b>9:00-9:30</b></p> <p><b>Room 201</b></p>	<p><b>Welcome by Univ.-Prof. Dr. Aleksandar Marković</b> President of the Council of the Faculty of Organisational Sciences. <b>On behalf of Univ.-Prof. Dr. Milan Martić</b> Dean of the Faculty of Organisational Sciences</p> <p><b>Welcome by Pascale Zaraté, Fátima Dargam &amp; Rita Ribeiro</b> General co-Chairs of ICDSST 2015 on behalf of the EWG-DSS Coordination Board</p> <p><b>Welcome by Prof. Boris Delibašić</b> Program Chair of ICDSST 2015 – EWG-DSS Co-chairs</p>
	<b>Sessions 2 - Special Talk - Room 201</b>
<p><b>Session 2</b></p> <p><b>9:30-10:30</b></p> <p><b>Room 201</b></p>	<p><b>“Big Data Mining and Data Science”</b></p> <p><b>Invited Talk by Yong Shi</b> Executive Deputy Director Key Lab of Big Data Mining and Knowledge Management Chinese Academy of Sciences</p> <p><b>Chair: Rita Ribeiro</b></p>
<b>10:30-11:00</b>	<b>Coffee Break Employees' club (Room 209)</b>

<b>Session 3</b>	<b>Room 201</b>	<b>Room 106</b>
<b>2 Parallel Sessions</b>	<b>Big Data Challenges</b> <b>Chair: Fatima Dargam, Ana Paula Costa</b>	<b>Decision Support Systems</b> <b>Chair: Pascale Zaraté</b>
<b>11:00-12:30</b>	<p><i>"Big Data Business Analytics: Challenge, Opportunity, and Talent Gap"</i> <i>Xin James He (22 minutes)</i></p> <p><i>"Mobile data uses: current investigations and future research avenues"</i> <i>Christian Colot and Isabelle Linden (22 minutes)</i></p> <p><i>"The Role of Decision Making in the Big Data Era"</i> <i>Fatima Dargam, Pascale Zaraté, Rita Ribeiro and Shaofeng Liu (22 minutes)</i></p> <p><i>"The roles of Big Data in the Decision-Support process: an empirical investigation"</i> <i>Thiago Poletto, Victor Carvalho and Ana Paula Costa (22 minutes)</i></p>	<p><i>"Data-mining and expert models for predicting injury risk in ski resorts"</i> <i>Marko Bohanec and Boris Delibašić (22 minutes)</i></p> <p><i>"A Tangible Collaborative Decision Support System for Various Variants of the Vehicle Routing Problem"</i> <i>Nikolaos Ploskas, Ioannis Athanasiadis, Jason Papathanasiou and Nikolaos Samaras (22 minutes)</i></p> <p><i>"Decision support model for participatory management of water resource"</i> <i>Annielli Cunha and Danielle Morais (22 minutes)</i></p> <p><i>"A Communication-Tool DSS for Conflict Resolution"</i> <i>Rami A. Kinsara, Marc Kilgour and Keith W. Hipel (22 minutes)</i></p>
<b>12:30-14:00</b>	<b>Lunch Restaurant "Politikolog" (Faculty of Political Sciences, Jove Ilića 165)</b>	
	<b>Sessions 4 - Special Talks - Room 201</b>	
<b>Session 4a</b> <b>14:00-14:30</b> <b>Room 201</b>	<p><b>"COST (European Cooperation in Science and Technology) in H2020"</b></p> <p><b>Invited Talk by Tatiana Kovacicova</b> Full Professor in the Applied Informatics Department of InfoCom Networks University of Zilina</p> <p><b>Chair: J. Papathanasiou</b></p>	
<b>Session 4b</b> <b>14:30-15:00</b> <b>Room 201</b>	<p><b>"'Big Data' Decision Making Use Cases"</b></p> <p><b>Invited talk by Daniel Power</b> Professor of Information Systems and Management University of Northern Iowa Editor of DSSResources.COM, DecisionAutomation.COM and PlanningSkills.COM</p> <p><b>Chair: P. Zaraté</b></p>	
<b>15:00-15:30</b>	<b>Coffee Break Employees' club (Room 209)</b>	

<b>Session 5</b>	<b>Room B003</b>	<b>Room B002</b>
<b>2 Parallel Sessions</b>	<b>Group and collaborative DM</b> <b>Chair: Shaofeng Liu</b>	<b>Multiattribute decision-making I</b> <b>Chair: Rita Ribeiro</b>
<b>15:30-17:00</b>	<p><i>"Making sense of governmental activities over social media: a data-driven approach"</i> Brunella Caroleo, Andrea Tosatto and Michele Osella (22 minutes)</p> <p><i>"Impact of social-networking on Collaborative Multicriteria WEB based decision-support system (CMWEB - DSS)"</i> Noria Taghezout, Imene Bessedik and Fatima Zohra Benkeddour (22 minutes)</p> <p><i>"Towards improving management in spunlace non woven industry: An ontology based solution for collaborating and sharing knowledge"</i> Fatima Zohra Benkaddour and Noria Taghezout (22 minutes)</p> <p><i>"Incorporating Individual Characteristics of the Negotiators in the Negotiation Process Supported by Negotiation Support System"</i> Jadielson Moura and Ana Paula Costa (22 minutes)</p>	<p><i>"A multicriteria decision analysis model for ranking Serbian Banks"</i> Radovan Đalovic, Nevenka Žarkic-Joksimovic and Boris Delibašić (22 minutes)</p> <p><i>"Importance of Data Normalization in Decision Making: case study with TOPSIS method"</i> Nazanin Vafaei, Rita A. Ribeiro and Luis M. Camarinha-Matos (22 minutes)</p> <p><i>"Modeling Consumer Heterogeneity: A Novel Approach"</i> Mohammad Ghaderi, Nuria Agell and Francisco Javier Ruiz (22 minutes)</p> <p><i>"Measuring a technology's potential for innovative In-Vehicle Information Systems: an MCDM approach using a large set of alternatives"</i> Isabel Lisboa, Joana Vieira, Sandra Mouta, Sara Machado, Nuno Ribeiro, Estevão Silva, Rita Ribeiro and Alfredo Pereira (22 minutes)</p>
<b>17:00-19:00</b>	<b>Fac. of Organizational Sciences Courtyard</b>	
	<b>Belgrade Bus Tour</b>	
<b>Session 6</b> <b>19:00–21:00</b>	<p><b>Session 6 - Posters Session and Open Sky Dinner Reception</b> <b>Courtyard of Faculty of Organisational Sciences</b></p> <p><i>"Multicriteria Decision Analysis for banks risks evaluation"</i> Jean Baptiste Rakotoarivelo, Pascale Zarate and Josvah Paul Razafimandimby</p> <p><i>"CAMES (Corporate Action Methodology for Enterprise Systems): Decision Management through Improved Communication"</i> Olaf Cames and Peter Smith</p> <p><i>"Decision Support System for Quality Design of Steel Products through Just-In-Time Modeling"</i> Hiroyasu Shigemori</p> <p><i>"Organizational Knowledge Framework for Performance Decision Making"</i> Oluwafemi Oyemomi, Shaofeng Liu and Irina Neaga</p>	

# 1<sup>st</sup> EWG-DSS International Conference on Decision Support System Technology – Program



<b>Day 2</b>	<b>Thursday May 28<sup>th</sup>, 2015</b>	
	<b>Sessions 7 - Special Talk - Room 201</b>	
<b>Session 7</b> <b>9:00-10:00</b> <b>Room 201</b>	<p><b>“Predictive Analysis in Complex Dynamic Networks”</b></p> <p><b>Invited Talk by Prof. Zoran Obradović</b> Director Center for Data Analytics and Biomedical Informatics Temple University</p> <p><b>Chair: Fatima Dargam</b></p>	
<b>10:00-10:30</b>	<b>Coffee Break Employees' club (Room 209)</b>	
<b>Session 8</b> <b>2 Parallel Sessions</b>	<b>Room 201</b>	<b>Room 106</b>
	<p><b>Big Data Analytics in Healthcare</b></p> <p><b>Chair: Gregor Štiglic</b></p>	<p><b>Data Analysis in Biometrics</b></p> <p><b>Chair: Miroslav Minović, Miloš Milovanović</b></p>
<b>10:30-12:15</b>	<p><b>“Characterizing the Comorbidity Based Groups of Patients”</b> <i>Petra Povalej Brzan, Nino Fijacko, Gregor Stiglic, Boris Delibasic, Alexandros Kalousis and Zoran Obradovic (18 minutes)</i></p> <p><b>“Privacy Preserving DSS for reducing Hospital Re-admission rates based on predictive models and knowledge and data sharing”</b> <i>Milan Vukicevic, Sandro Radovanovic, Ana Kovacevic, Boris Delibašic, Milija Suknovic, Zoran Obradovic, Gregor Stiglic and Alexandros Kalousis (18 minutes)</i></p> <p><b>“Interpretable Sparse Models Using ICD9 Hierarchy For Predicting Pediatric Readmission”</b> <i>Miloš Jovanovic, Sandro Radovanovic and Boris Delibašic (18 minutes)</i></p> <p><b>“Building interpretable models for 30-day hospital</b></p>	<p><b>“Enhancing Functionality Of Biometric Systems Using Technical Standards”</b> <i>Milorad Milinkovic, Miroslav Minovic and Miloš Milovanovic (20 minutes)</i></p> <p><b>“Integrating open source components for human ear feature extraction”</b> <i>Aleksandar Komarica, Uroš Šošević and Dušan Starcevic (20 minutes)</i></p> <p><b>“Machine learning algorithms in service of improving human gait recognition”</b> <i>Sandro Radovanovic, Milos Milovanovic, Miroslav Minovic and Milan Vukicevic (20 minutes)</i></p> <p><b>“Open source algorithms performance on unconstrained facial images”</b> <i>Miloš Živadinovic, Ivan Milenkovic and Dejan Simic(20 minutes)</i></p>

	<p><i>re-admission prediction using evolutionary generic decision trees and knowledge based feature compression</i> Milan Vukicevic, Sandro Radovanovic, Petar Markovic and Boris Delibašić (18 minutes)</p> <p><i>"Toward Automatic Creation of Clinical Pathways"</i> Kathrin Kirchner (18 minutes)</p> <p><i>"Predicting Patients' Readmission Probabilities on the Basis of Patient Similarities"</i> Elena Milovanovic, Nina Turajlic, Boris Delibašić, Sandro Radovanovic and Miloš Jovanovic (20 minutes)</p>	<p><i>"Tracking Users' Emotional Reactions and Behavioral Biometrics – toward developing system for students' authentication"</i> Ivana Kovacevic (20 minutes)</p>
12:15-13:15	<b>Lunch Restaurant "Politikolog" (Faculty of Political Sciences, Jove Ilića 165)</b>	
	<b>Sessions 4 - Special Talk - Room 201</b>	
<p><b>Session 9</b></p> <p>13:30-14:30</p> <p><b>Room 201</b></p>	<p><b><i>"Interactive Visualisation Exploitation of Large Archives, Big Data Analytics for the Gaia mission"</i></b></p> <p><b>Invited Talk by Antonio Falcao &amp; Andre Moitinho de Almeida</b> Research Engineer at CA3 – Uninova, Portugal Researcher, University of Lisbon, Portugal</p> <p><b>Chair: Isabelle Linden</b></p>	
14:30-15:00	<b>Coffee Break Employees' club (Room 209)</b>	
<p><b>Session 10</b></p> <p><b>2 Parallel Sessions</b></p> <p>15:00-16:30</p>	<p><b>Room B003</b></p> <p><b>Big Data in Enterprises</b></p> <p><b>Chair: Dragana Bečejski-Vujaklija</b></p>	<p><b>Room B002</b></p> <p><b>Multiattribute decision-making II</b></p> <p><b>Chair: Jason Papathanasiou</b></p>
15:00-16:30	<p><i>"Big Data in the Enterprise: Dilemmas and Solutions"</i> Dragana Becejski-Vujaklija (18minutes)</p> <p><i>"Supporting Process Discovery for Complex Processes"</i> Pavlos Delias and Stelios Tsafarakis(18minutes)</p> <p><i>"An Alternative Approach to In-Memory Data Processing: A case of financial institutions"</i> David Lešjanin, Ognjen Pantelic and Ana Pajic (18minutes)</p> <p><i>"Process Mining on ERP systems: Logical Structure of The Artifact-Centric Approach of Log Extraction"</i></p>	<p><i>"Modeling interactions among criteria in MCDM methods: A review"</i> Ksenija Mandic, Vjekoslav Bobar and Boris Delibasic (18 minutes)</p> <p><i>"Implementing a cloud-based decision support system in a private cloud: The infrastructure and the deployment process"</i> Imene Benatia, Mohamed Ridha Laouar, Hakim Bendjenna and Sean B. Eom (18 minutes)</p> <p><i>"An AHP Model for Contractor Prequalification"</i> Omar El Kaseh and Boris Delibašić(18 minutes)</p> <p><i>"A multicriteria decision support for the</i></p>

	<p><i>Ana Pajic and Dragana Becejski-Vujaklija (18minutes)</i></p> <p><i>"Using the MapReduce to improve query-response in a survey platform"</i>  <i>Aleksandar Ivanovic, Milan Tomic and Dusan Vujosevic (18minutes)</i></p>	<p><i>sustainable production of an apparel factory"</i>  <i>Luiza Rocha and Suzana Daher(18 minutes)</i></p> <p><i>"Multiplicative Utilities for Health and Consumption"</i>  <i>Casey Lichtendahl and Samuel Bodily(18 minutes)</i></p>
	<p><b>Sessions 9 - Industrial Solutions - Room 201</b></p> <p><b>Chairs: Zoran Marjanović, Nenad Aničić</b></p>	
<p><b>Session 11</b></p> <p><b>Sponsor session</b></p> <p><b>16:30-19:00</b></p>	<ul style="list-style-type: none"> <li>• <b>Lumina: Max Henrion (scheduled 4:30 PM)</b></li> <li>• <b>Arena (Rockwell Automation): Jon Santavy (scheduled 5:00 PM)</b></li> <li>• <b>FlexSim: Bill Nordgreen (scheduled 5:30 PM)</b></li> <li>• <b>ExtendSim: Robin Clark (scheduled 6:00 PM)</b></li> <li>• <b>IN2: Nataša Vujičić (scheduled 6:20PM)</b></li> <li>• <b>Logit: Rastko Čarapić (scheduled 6:40 PM)</b></li> </ul>	
<p><b>19:15</b></p>	<p><b>Gala Dinner – Best Western Hotel M, Bulevar Oslobođenja 56a</b></p>	



# 1<sup>st</sup> EWG-DSS International Conference on Decision Support System Technology – Program



<b>Day 3</b>	<b>Friday May 29<sup>th</sup>, 2014</b>	
	<b>Session 12 – Panel discussion – Room 201</b>	
<b>Session 12</b> 9:00-10:30 Room 201	<p><b>“Big Data Changing our World”</b></p> <p><b>Panelists:</b> Prof. Zoran Obradovic, Prof. Yong Shi, Prof. Marko Bohanec, Prof. Shaofeng Liu, Dr. Fatima Dargam, Prof. Rita Ribeiro, Prof. Marc Kilgour, Milan Dobrota</p> <p><b>Moderator:</b> Prof. Pascale Zaraté</p>	
<b>Session 13</b> 10:30-10:40 Room 201	<p><b>“ICDSST 2016” – Announcement &amp; 1<sup>st</sup> Call for Participation</b></p> <p>Invited Talk by Shaofeng Liu</p> <p><b>Chair:</b> Boris Delibašić</p>	
<b>Session 14</b> 10:40-10:45 Room 201	<p><b>“EWG-DSS 2014-Award Ceremony”</b></p> <p>Winner: Ksenija Mandic</p> <p><b>Chair:</b> EWG-DSS Coordination Board</p>	
10:45-11:15	<b>Coffee Break</b> Employees' club (Room 209)	
<b>Session 15</b> 2 Parallel Sessions 11:15-13:15	<b>Room 201</b>	<b>Room B002</b>
	<p><b>Business Intelligence &amp; Data Mining</b></p> <p><b>Chair:</b> Isabelle Linden</p>	<p><b>Soft Computing for Systems, Modelling and Control</b></p> <p><b>Chair:</b> Bratislav Petrović, Dragan Radojević</p>

11:15-13:15	<p><i>"The effects of performance ratios in predicting corporate bankruptcy: the Italian case."</i> Luciano Nieddu and Francesca di Donato (20 minutes)</p> <p><i>"Cloud Enabled Big Data Business Platform for Logistics Services: A Research and Development Agenda"</i> Irina Neaga, Shaofeng Liu, Lai Xu, Huilan Chen and Yuqiuge Hao (20 minutes)</p> <p><i>"Adaptive Behavior and Data Mining"</i> Arcady Rantrua, Sébastien Chabrier and Marie-Pierre Gleizes (20 minutes)</p> <p><i>"Using data mining techniques in specialized individual insurance policy issuance process optimization"</i> Dusan Velickovski and Jelena Lazarevic (20 minutes)</p> <p><i>"Towards a BI Platform to Support Food Traceability Management: Benefits and Challenges Identification"</i> Maria Gianni, Katerina Gotzamani and Isabelle Linden (20 minutes)</p> <p><i>"Process Mining and Clustering for Injury Risk Assessment based on Skiing Patterns"</i> Milan Dobrota, Boris Delibašić and Pavlos Delias (20 minutes)</p>	<p><i>"Epileptic seizure detection using Artificial Neural Network"</i> Marina Jeremic and Pavle Milosevic (20 minutes)</p> <p><i>"Bankruptcy Prediction of Serbian Companies using Soft Computing Techniques"</i> Dara Marinkovic, Pavle Milosevic and Ivana Dragovic (20 minutes)</p> <p><i>"Modeling complex systems using interpolative Boolean algebra"</i> Vladimir Dobric, Pavle Milošević and Bratislav Petrovic (20 minutes)</p> <p><i>"IBA-based Order Relation in Reliability Engineering"</i> Nemanja Lilic and Bratislav Petrovic (20 minutes)</p> <p><i>"Fuzzy Control of Moving Average Filter for Financial Time Series Smoothing"</i> Aleksandar Rakicevic, Ana Poledica and Bratislav Petrovic (20 minutes)</p> <p><i>"Business Processes Results Prediction Using Neural Networks"</i> Nikola Vojtek (20 minutes)</p>
13:15–13:30	<p><b>Sessions 16 - Closing Session - Room 201</b></p> <p><i>Best paper awards!</i></p>	