



# DSS 2010

the 15th IFIP WG8.3 International Conference on Decision Support Systems

## Bridging the socio-technical gap in DSS - Challenges for the next decade

July 7-10, 2010

Faculty of Sciences, University of Lisbon  
Portugal

### DSS 2010 Programme

July 7, 2010 (Wednesday)

Time	room 6.2.50	room 6.2.49
	<b>Doctoral Consortium</b>	
9:00-9:30	Introductions	
9:30-10:30	<b>Keynote: Professor Helder Coelho, On Research Methodology for Computing Sciences</b>	
10:30-10:45	<b>Coffee Break</b>	
10:45-12:45	Speed Thesis Competition	
13:00-14:00	<b>Lunch</b>	
14:00-15:45	Small group facilitated discussion	<b>Doctoral Consortium</b> Small group facilitated discussion
15:45-16:00	<b>Coffee Break</b>	
16:00-17:00	<b>Keynote: Professor Frederic Adam, Strategies for delivering a good PhD on-time</b>	<b>Task force meeting</b> chair Fergal Carton
17:00-17:30	Presentation of prizes and conclusion	
17:30-18:00	<b>Free time</b>	
18:00-19:00	<b>Conference participant's registration and welcome drink (C6 atrium)</b>	



**DSS 2010 Programme**  
July 8, 2010 (Thursday)

Time			
8:30-9:00	<b>Registration</b>		
9:00-9:30	<b>Opening session - room 6.1.36</b>		
9:30-10:30	<b>keynote Liam Bannon, Making sense of human actors: Beyond homo economicus - room 6.1.36</b>		
10:30-11:00	<b>Coffee Break (C6 atrium)</b>		
11:00-13:00	room 6.1.36 <b>Understanding Decision Making - I</b> chair <b>Patrick Humphreys</b> The Shadow of ECM: The Hidden Side of Decision Processes. <i>Alessandro Zardini, Lapo Mola, Jan vom Borke and Cecilia Rossignoli</i>	room 6.2.49 <b>Web 2.0 Systems in Decision Support</b> chair <b>Philip Powell</b> A Functional Model of Social Media and its Application to Business Intelligence. <i>Rob Meredith and Peter O'Donnell</i>	room 6.2.50 <b>Decision Making in Emergency Scenarios</b> chair <b>Pedro Antunes</b> An Activity Theory Framework for DSS for Extreme Events. <i>Daniel E. O'Leary</i>
	Rational and Intuitive Decision-Makers from Two Continents. <i>Zita Zoltay Paprika</i>	Informing the Development of a Knowledge Base. <i>Karen Neville, William Emerson and Eoin Walsh</i>	Assigning Emergency Vehicles to Urban Incidents. <i>Marcos R. S. Borges, Sergio F. Ochoa, José A. Pino and Adriana Vivacqua</i>
	Assessing the Theoretical Strength within the Literature Review Process: a Tool for Doctoral Researchers. <i>David Sammon, Tadhg Nagle and Paidi O'Raghallaigh</i>	Influencing Consumer Decisions Through Personalization. <i>Gloria Phillips-Wren and Jeffrey Wygant</i>	Emergency Preparedness Coordination: Network Approach in Dynamic Disaster Environments. <i>Kwang Deok Kim and Liaquat Hossain</i>
	Senior Executive Information Behaviors and Decision Support: A Research Agenda. <i>David Arnott</i>	Design for Enterprise 2.0: Articulating the Online Social Capital Hypothesis. <i>Paul Bogg, Patrick Finnegan, Lesley Land and Hamish Barney</i>	The Role of Domain Ontology for Medical Emergency Management in Mass Gatherings. <i>Pari Delir Haghighi, Frada Burstein, Arkady Zaslavsky, Paul Arbon and Shonali Krishnaswami</i>
13:00-14:00	<b>Lunch</b>		
14:00-15:00	<b>Panel: Business Intelligence Research: Status and Strategies - room 6.1.36</b> chair <b>David Arnott</b>		
15:00-16:00	room 6.1.36 <b>Business Intelligence and Data Warehousing-I</b> chair <b>Rob Meredith</b> Business Analytics and Competitive Advantage: A Review and a Research Agenda. <i>Rajeev Sharma, Peter Reynolds, Rens Scheepers, Peter Seddon and Graeme Shanks</i>	room 6.2.49 <b>Applications of Multi-Criteria Decision Analysis -I</b> chair <b>João Clímaco</b> Selecting Reference Set in Disaggregation Aggregation Multicriteria Decision Aid Approach Utilizing Clustering Techniques with Dissimilarity Thresholds. <i>Athanasios Spyridakos</i>	room 6.2.50 <b>Knowledge Management - I</b> chair <b>Daniel O'Leary</b> Theory-building Using Typologies – A Worked Example of Building a Typology of Knowledge Activities for Innovation. <i>Paidi O'Raghallaigh, David Sammon and Ciaran Murphy</i>
	A Participatory Case Study of Business Intelligence Systems Development. <i>Marcus Gibson and David Arnott</i>	<b>Visualization Methods for Multi-Criteria Portfolio Selection - an Empirical Study.</b> <i>Rudolf Vetschera, Johannes Gettinger, Elmar Kiesling and Christian Stummer</i>	Characterising a Socio-Technical Approach to Knowledge Management – Cases in Small to Medium Sized Software Enterprises (SMEs). <i>Ciara Heavin and Frederic Adam</i>
16:00-17:00	<b>Posters Session with coffee and cookies - atrium of C6</b> chair <b>Alexander Brodsky</b>		
	Strategic Decision Support for Energy Futures: Linking Intuitive Stakeholder Preferences and Energy Analysis. <i>Evelina Trutnevyte, Michael Stauffacher and Roland W. Scholz</i>		
	Decision Guidance Query Language and System. <i>Nathan Egge, Alexander Brodsky and X. Sean Wang</i>		
	Decisions on Multivariate Time Series: Combining Domain Knowledge with Utility Maximization. <i>Chun-Kit Ngan, Alexander Brodsky and Jessica Lin</i>		
SimQL: Simulation-Based Decision Modeling Over Stochastic Databases. <i>Susan Farley, Alexander Brodsky, John McDowall and Nathan Egge</i>			
17:00-18:30	room 6.1.36 <b>ERP Systems</b> chair <b>Lapo Mola</b> Evaluating ERP Projects with Global Efficiency Factors. <i>Ksenča Bokovec, Talib Damij, Tanja Rajkovic and Vladislav Rajkovic</i>	room 6.2.49 <b>Intelligent Decision Making - I</b> chair <b>Patrick Brézillon</b> Using Multi-Agent Based Simulation in an IDSS for Evaluating Performance in Flowshop Manufacturing System. <i>Noria Taghezout and Pascale Zarate</i>	room 6.2.50 <b>Decision Support in Commerce</b> chair <b>Armando Mendes</b> Drivers of B2B Software Purchase Decisions. <i>Claudia Loebbecke, Thomas Weiss, Philip Powell and Christin Krooss</i>
	Understanding the Impact of Technology on Managerial Decision Making – The Case of the ERP System. <i>Fergal Carton and Frederic Adam</i>	A Multi-Agent Negotiation Decision Support System for Australian Family Law. <i>Brooke Abrahams and John Zeleznikow</i>	Improving Decision Quality Through Preference Relaxation. <i>Maciej Dabrowski and Thomas Acton</i>
	Inter-Organizational Decision Support Systems for Supply Chain Planning: Current State. <i>Sean B. Eom</i>	Forecasting Project Portfolio Performance – A Neural-Network-Based Approach. <i>Verena Dorner</i>	Identifying Recommendable Products Based on Signal Detection Theory. <i>Michael Scholz</i>
18:30-20:00	<b>Lisbon walk - Castle of São Jorge - cocktail</b>		

## DSS 2010 Programme

July 9, 2010 (Friday)

Time			
9:00-10:00	<b>keynote Omar El Sawy, Decision Support and Environmental Scanning: Past Hallucinations, Present Realities, and Future Prospects - room 6.1.36</b>		
10:00-10:30	<b>Coffee Break (c6 atrium)</b>		
10:30-12:20	room 6.1.36 <b>Understanding Decision Making - II</b> chair Zita Paprika	room 6.2.49 <b>Applications of Multi-Criteria Decision Analysis - II</b> chair Rudolf Vetschera	room 6.2.50 <b>Business Intelligence and Data Warehousing - II</b> chair Graeme Shanks
	On Institutional Rationality and Decision Making in Adopting Green ICT Strategies. <i>Tom Butler, Anthony Flynn and James McGarry</i>	PRIOR-WEB: A Discrete Multicriteria Prioritization Tool for the Global Economy Context. <i>Juan Aguarón, María Teresa Escobar, José María Moreno-Jiménez and Alberto Turón</i>	Making Sense of the Master Data Management (MDM) Concept: Old Wine in New Bottles or New Wine in Old Bottles? <i>David Sammon, Frederic Adam, Tadhg Nagle and Sven Carlsson</i>
	Implementing the "Design for Emergence" Principle in GDSS. <i>Constantin-Bala Zamfirescu, Luminita Duta and Ciprian Cîndea</i>	Using Action Research on the Process of Decision Support with VIP Analysis Software. <i>Alessandra Ventura, Luis C. Dias and João N. Clímaco</i>	BI and Data Warehouse Solutions for Energy Production Industry: Application of the CRISP-DM Methodology. <i>Armando Mendes</i>
	The Involvement of Group Decision and Communication Support in Building a SME Cluster in China. <i>Junxiang Zhang and Patrick Humphreys</i>	A GIS Embedded Decision Support System for Bicriteria Location Problems. <i>Sérgio Fernandes, M. Eugénia Captivo and João N. Clímaco</i>	Market Strategy and Innovation in the Business Intelligence Industry: A Preliminary Study. <i>Steve Remington, Peter O'Donnell and David Arnott</i>
Decision-Making under Uncertainty and Complexity. <i>Eurico Lopes</i>	Ranking Alternatives on the Basis of a Dominance Intensity Measure. <i>Alfonso Mateos, Antonio Jiménez, Ernesto Aguayo and Arminda Moreno</i>	How Web 2.0 Improves Business Intelligence: Showcase of Emerging Technologies. <i>Berta Buttarazzi, Mirko Mechilli and Luciano Polinari</i>	
12:20-13:30	<b>Lunch</b>		
13:30-14:30	<b>panel: Healthcare IT and Decision Support - room 6.1.36</b> chair Gloria Phillips-Wren		
14:30-15:30	room 6.1.36 <b>Design of Decision Support Systems - I</b> chair Peter Keenan	room 6.2.49 <b>Business Intelligence and Data Warehousing - III</b> chair Peter O'Donnell	room 6.2.50 <b>Knowledge Management - II</b> chair Piero Migliarese
	Global and Local Organizational Factors Influencing Information Requirements in DSS Development. <i>Vincenzo Corvello and Davide Salvatore Gitto</i>	SYSCO: Data Warehousing and Business Intelligence for Decision Support in Supply Chain Management. <i>Dan E O'Leary</i>	A System for Extracting Tacit Knowledge: Shared and Collaborative Knowledge Generation. <i>Sara Topi, Mauro Mazzieri and Aldo Franco Dragoni</i>
	Decision Support by CAFM Systems: A Challenge in Facility and Real Estate Management. <i>Thomas Madritsch and Michael May</i>	A Taxonomy of Motives for Understanding Business Intelligence Systems Implementation. <i>Ilona Jagielska, Graeme Shanks and Rahim Mahbubur</i>	Socio-Technical Enablers of Knowledge Management. <i>Meliha Handzic</i>
DSS Framework for Analysis of the Impact of Objects to People at Visitors' Area. <i>Ferenc Kiss and Marianna Török</i> (short paper)	Decision support for ERP-Based Production Management: a Business Intelligence Perspective, <i>Shaofeng Liu, Jonathan Moizer, Pushpa Subramaniam, Mike Leat and Isabelle Linden</i>	An Approach for Collaborative Decision Making in Knowledge Management. <i>Imène Brigui-Chtioui and Ines Saad</i>	
15:30-16:00	<b>Coffee Break (c6 atrium)</b>		
16:00-17:20	room 6.1.36 <b>Context in Decision Making</b> chair Marcos Borges	room 6.2.49 <b>Intelligent Decision Making - II</b> chair Pascale Zaraté	room 6.2.50 <b>Decision Support for Policy Making - I</b> chair Maria Franca Norese
	Context-Oriented Scientific Workflow System and its Application in Virtual Screening. <i>Xiaoliang Fan, Patrick Brézillon, Ruisheng Zhang and Lian Li</i>	Case and Model Based Hybrid Reasoning for Group Decision Making. <i>Abdelkader Adla, Pascale Zarate, Jean-Luc Soubie and Noria Taghezout</i>	Public Procurement as Regulated Decision Making Problem: Challenges for DSS. <i>Csaba Csáki and Frederic Adam</i>
	Cognitive Decision-Making Process as Context Information. <i>Andreia Pereira and Flávia M. Santoro</i>	Towards a Cellular Indexing in a Case Based Reasoning Approach: Application to an Urban Transportation System Regulation. <i>Fouzila Amrani and Karim Bouamrane</i>	An IS Success Evaluation of a DSS in a Police Organization. <i>Sven A. Carlsson, Linda-Marie Skog and Olgerta Tona</i>
Framing Decision-Making at Two Levels. <i>Patrick Brézillon and Jean-Charles Pomerol</i>	I-DSS for Detecting Stars Degeneracy. <i>Tiago Simas, Rita Ribeiro, Fernando Pinheiro and João Fernandes</i>	Optimisation of Transport Time of Patient into the Health Units in the Town of Yaoundé: An Implantation Decision Process of Dark Zone Health Units. <i>Chrispin Pettang, Marcelline Blanche Manjia and Georges Edouard Kouamou</i>	
17:20-18:30	<b>free time</b>		
18:30-22:30	<b>Conference Dinner</b>		

papers in brown (supplemental proceedings) and short papers: presentation time of 20 minutes

## DSS 2010 Programme

July 10, 2010 (Saturday)

Time

9:00-10:30	room 6.1.36 <b>Design of Decision Support Systems - II</b> <b>chair Marko Bohanec</b> Supporting DSS Acceptability through a User-Centered Design Methodology: Experiences in Emergency Management. <i>Pietro Baroni, Daniela Fogli, Massimiliano Giacomini, Giovanni Guida, Loredana Parasiliti Provenza, Michele Rossi, Marko Bohanec and Martin Žnidaršič</i>	room 6.2.49 <b>Decision Support for Production Planning</b> <b>chair Sean Eom</b> OR-Based Decision Support in Paper Production Industry. <i>G.D.H. Claassen and Th. H.B. Hendriks</i>	room 6.2.50 <b>Decision Support for Policy Making - II</b> <b>chair Sven A. Carlsson</b> A System to Analyse Interviews and Structure the Acquired Knowledge Elements. <i>Maria Franca Norese and Fabio Salassa</i>
	Ubiquitous Computing Infrastructure as a Basis for Creativity Support. <i>Stanislaw Stanek</i>	A Decentralized Collaborative Replenishment Decision-Making Model in the Automobile Supply Chain Sector. <i>Jorge E. Hernández, Josefa Mula, Raúl Poler and Francisco C. Lario</i>	Identification of the Variables in an e-Learning Platform Using a Cost-Benefit Analysis and an Automatic Decision-Making Tool. <i>Gianni Fenu and Massimiliano Picconi</i>
	How Relevant is Fieldwork to DSS Design-Science Research? <i>David Arnott and Graham Pervan</i>	A Distributed Constraint Optimisation based Controller to Facilitate the Integration of Smart Energy Grids. <i>Ralf Hoben and Jean-Régis Hadji-Minaglou</i>	Assessing Experts' Contribution in a Qualitative DSS: an Example from Organic Food Sector Scenarios. <i>Daniilo Gambelli, Daniela Vairo and Raffaele Zanolì (short paper)</i>
10:30-11:00	<b>Coffee Break (c6 atrium)</b>		
11:00-12:00	<b>keynote Carlos Bana e Costa, Decision Conferencing with Multicriteria Decision Support Systems - room 6.1.36</b>		
12:00-13:00	<b>Business Meeting</b>		
13:00-13:15	<b>Closing Session</b>		
13:15-14:30	<b>Lunch</b>		
14:30-18:00	<b>tour to Sintra-Cascais-Estoril (optional)</b>		
20:00	<b>informal meeting at Parque das Nações- Expo</b>		

papers in brown (supplemental proceedings) and short papers: presentation time of 20 minutes