

## GUEST EDITORIAL PREFACE

# Special Issue on Advances on Decision Sciences and on Decision Support Technologies

*Fátima Dargam, SimTech Simulation Technology, Graz, Austria*

*Boris Delibašić, Faculty of Organizational Sciences, University of Belgrade, Belgrade, Serbia*

*Jorge Hernández, Operations & Supply Chain Management, University of Liverpool  
Management School, Liverpool, UK*

This IJDSST Special Issue on “Advances on Decision Sciences and on Decision Support Technologies” includes papers selected from the DSS Stream of the EURO Mini-Conference on “Collaborative Decision Systems in Economics and in Complex Societal and Environmental Applications”. The EURO Mini-Conference Graz-2013 was held in Graz, Austria, from October 17th to 19th, 2013. It was jointly organised by the EURO Working Groups on Decision Support Systems (EWG-DSS); Experimental Economics (EWGE-CUBE), the EURO Working Group on Methodology for Complex Societal Problems (MCSP) and the EURO Working Group on OR in Agriculture and Forest Management (ORAFM). The DSS Stream was organised by the Euro Working Group on Decision Support Systems (EWG-DSS).

As the guest-editors of this Special Issue, we are extremely proud to confirm that this publication's initiative has reached its main

objective of gathering high quality research and application oriented papers, devoted to the development advances within decision making and decision support.

The focus of this IJDSST Special Issue is on the recent advances on Decision Sciences and on Decision Support Technologies. The 4 papers included in this volume tackle some key issues of decision making from different perspectives. The first paper, by Patrick Hippmann, addresses the negotiation issue within decision making, by taking into account the users' emotional behaviors in text-based online negotiations. In the second paper, Andrej Bregar proposes a framework for the measurement and reduction of user-perceivable complexity, taking into account group decision-making methods. The third paper, by Nikolaos Ploskas, Nikolaos Samaras and Jason Papathanasiou, exploits methodologies for a decision support system for solving linear programming problems. The

fourth paper, by Adiel Almeida Filho, Ana Paula Gusmão, Thárcylla Clemente, Jadielson Moura, Ana Paula Costa and Adiel T. de Almeida, presents an application of Decision Support System for sizing a call center of an electrical power distributor in Brazil.

We are quite pleased to have included in this IJDSST Special Issue a set of high quality and interesting pieces of research, authored by professionals coming from different research institutions across the continents. Editing this

Special Issue was a pleasure for us. We hope that you also enjoy as much reading it and that you can eventually refer to its contents in further research projects.

*Fátima Dargam*

*Boris Delibašić*

*Jorge Hernández*

*Guest Editors*

*IJDSST*

*Fátima Dargam is a senior IT professional at SimTech Simulation Technology, where she works on research and development of software for computer-based simulation since 1995. She is a founding member (1989) and Coordinator of the EURO Working Group on Decision Support Systems (EWG-DSS) since 2007. She cooperates as senior researcher with the Research Institute ILTC, in Brazil since 1988. She holds a Ph.D. in Computer Sciences from Imperial College London (1996); a M.Sc. in Artificial Intelligence from Instituto Militar de Engenharia (IME), Rio de Janeiro (1989); an Engineering degree in Electronics from Universidade Santa Ursula (USU-RJ)(1983); and a B.A. in English from USU-RJ(1983). Fátima's research interests reside mainly in the development of intelligent, distributed and cooperative web-based decision support systems for various applications; bridging the areas of knowledge management and decision making. In those areas she has been engaged in research for over 20 years. She is Associate Editor of the Journal IJDSST and belongs to the Editorial Board of the Journals: IJDSST, IJDSS and IJASCA. She regularly serves as reviewer as well as guest-editor for several international Journals related to the area of Decision Systems. Fátima Dargam also acts as project reviewer and evaluator for the European Commission as expert in the area of DSS. Fátima Dargam's most recent publications can be found at: [https://www.researchgate.net/profile/Fatima\\_Dargam/](https://www.researchgate.net/profile/Fatima_Dargam/).*

*Boris Delibašić is Associate Professor at the University of Belgrade, Faculty of Organizational Sciences (School of Management). In 2007 he received his PhD from the University of Belgrade. From 2012 he holds his current position. Since 2011 he is coordination board assistant at the EURO working group on Decision Support Systems (EWG-DSS). His main research interests are decision support systems, machine learning algorithm design, business intelligence, and multi-attribute decision making. Dr. Delibašić research profile can be found at [https://www.researchgate.net/profile/Boris\\_Delibasic](https://www.researchgate.net/profile/Boris_Delibasic).*

*Jorge Hernández is Associate Professor in Operations, Logistics & Supply Chain Management at the Universidad de La Frontera, Temuco, Chile and part-time Lecturer in Operations & Supply Chain Management at the University of Liverpool, UK. He holds a PhD in Supply Chain Management and Decision Support Systems from the Universitat Politècnica de Valencia (2011) and has won an award for his pioneering work in collaborative supply chains decision support systems based on multi-gents on 2014. Dr. Hernandez' research performance includes over 40 publications in the field of applied Decision Support Systems and Operations Management. Prior to his academic career, Dr. Hernandez was a simulation consultant working for a number of companies including Deloitte and Codelco. In addition Dr. Hernandez is visiting lecturer in the Universitat Politècnica de Valencia (since 2013) and collaborates as international PhD examiner board with a number of EU Universities. Dr. Hernández's most recent publications can be found at: [https://www.researchgate.net/profile/Jorge\\_E\\_Hernandez](https://www.researchgate.net/profile/Jorge_E_Hernandez).*