

# INTERNATIONAL JOURNAL OF DECISION SUPPORT SYSTEM TECHNOLOGY

April-June 2013, Vol. 5, No. 2

## Table of Contents

### SPECIAL ISSUE ON MODELLING DECISION SYSTEMS FOR CRITICAL APPLICATIONS

### GUEST EDITORIAL PREFACE

- iv *Fátima Dargam, ILTC, Brazil & SimTech Simulation Technology, Graz, Austria*  
*Shaofeng Liu, School of Management, University of Plymouth, Plymouth, UK*  
*Isabelle Linden, Department of Business Administration, University of Namur (FUNDP), Namur, Belgium*

### RESEARCH ARTICLES

- 1 **Agile Data Fusion and Knowledge Base Architecture for Critical Decision Support**  
*Zlatko Zlatev, University of Southampton IT Innovation Centre, Southampton, Faculty of Physical Sciences and Engineering, UK*  
*Galina Veres, University of Southampton IT Innovation Centre, Southampton, Faculty of Physical Sciences and Engineering, UK*  
*Zoheir Sabeur, University of Southampton IT Innovation Centre, Southampton, Faculty of Physical Sciences and Engineering, UK*
- 21 **A Primary Market for Optimizing Power Peak-Load Demand Limits**  
*Hesham Altaleb, Department of Computer Science, George Mason University, Fairfax, VA, USA*  
*Alexander Brodsky, Department of Computer Science, George Mason University, Fairfax, VA, USA*
- 33 **A Concurrent Modelling to Generate Alternatives Approach Using the Firefly Algorithm**  
*Raha Imanirad, Department of Operations Management and Information Systems (OMIS) Area, Schulich School of Business, York University, Toronto, ON, Canada*  
*Xin-She Yang, Department of Mathematics & Scientific Computing, National Physical Laboratory, Teddington, UK*  
*Julian Scott Yeomans, Department of Operations Management and Information Systems (OMIS) Area, Schulich School of Business, York University, Toronto, ON, Canada*
- 46 **Optimal Event Monitoring through Internet Mashup over Multivariate Time Series**  
*Chun-Kit Ngan, Department of Computer Science, George Mason University, Fairfax, VA, USA*  
*Alexander Brodsky, Department of Computer Science, George Mason University, Fairfax, VA, USA*

### Copyright

The *International Journal of Decision Support System Technology* (ISSN 1941-6296; eISSN 1941-630X). Copyright © 2013 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global.

IJDSST is currently listed or indexed in: ACM Digital Library; Bacon's Media Directory; Cabell's Directories; Compendex (Elsevier Engineering Index); DBLP; GetCited; Google Scholar; INSPEC; JournalTOCs; MediaFinder; Norwegian Social Science Data Services (NSD); SCOPUS; The Index of Information Systems Journals; The Standard Periodical Directory; Ulrich's Periodicals Directory