

Contents

Invited Paper

Credibility, Validity and Testing of Dynamic Simulation Models	3
Yaman Barlas	

Papers

Model-Based Development of a Multi-algorithm Harvest Planning System	19
Luis Diogo Couto, Peter W.V. Tran-Jørgensen, and Gareth T.C. Edwards	
Cluster Performance Simulation for Spark Deployment Planning, Evaluation and Optimization	34
Qian Chen, Kebing Wang, Zhaojuan Bian, Illia Cremer, Gen Xu, and Yejun Guo	
Generator Platform of Benchmark Time-Lapsed Images Development of Cell Tracking Algorithms: Implementation of New Features Towards a Realistic Simulation of the Cell Spatial and Temporal Organization	52
Leonardo Martins, Pedro Canelas, André Mora, Andre S. Ribeiro, and José Fonseca	
Proteins Flexibility as a Criterion for Elucidation of Activating Mutants in Personalized Cancer Medicine	75
Igor F. Tsigelny, Razelle Kurzrock, Åge Aleksander Skjevik, Valentina L. Kouznetsova, Amélie Boichard, and Sadakatsu Ikeda	
Distributed PowerShell Load Generator (D-PLG): A Tool for Generating Dynamic Network Traffic	83
Paul Jordan, Donald Van Patten, Gilbert Peterson, and Andrew Sellers	
HLogo: A Haskell STM-Based Parallel Variant of NetLogo	97
Nikolaos Bezirgiannis, I.S.W.B. Prasetya, and Ilias Sakellariou	

Requirements Gathering and Validation for Risk-Oriented Tool Support in Supply Chains	120
Stephan Printz, Christophe Ponsard, Johann Philipp von Cube, Renaud De Landtsheer, Gustavo Ospina, Philippe Massonet, Robert Schmitt, and Sabina Jeschke	
Making Network Solvers Globally Convergent	140
Tanja Clees, Igor Nikitin, and Lialia Nikitina	
Predictive-Delay Control for Overloading in Real-Time Scheduling . . .	154
Zakaria Sahraoui, Abdenour Labeled, Mohamed Ahmed-Nacer, and Emmanuel Grolleau	
Agent-Based Modelling and Simulation Framework for Health Care . . .	171
Karam Mustapha, Quentin Gilli, Jean-Marc Frayret, and Nadia Lahrichi	
Parameter Identification of Canalyzing and Nested Canalyzing Boolean Functions with Ternary Vectors for Gene Networks	198
Annika Eichler and Gerwald Lichtenberg	
The Power of Surrogate-Assisted Evolutionary Computing in Searching Vaccination Strategy	222
Zong-De Jian, Tsan-sheng Hsu, and Da-Wei Wang	
Modelling Population Dynamics Using a Hybrid Simulation Approach: Application to Healthcare	241
Bożena Mielczarek and Jacek Zabawa	
A Simulation-Based Dynamic Scheduling Method in Project Cost Estimation Process	261
Nobuaki Ishii, Yuichi Takano, and Masaaki Muraki	
Future Prediction of Regional City Using Causal Inference Based on Time Series Data	280
Katsuhito Nakazawa, Tetsuyoshi Shiota, and Tsutomu Tanaka	
Cooperative Radio Resources Allocation and Congestion Prevention Scheme for LTE-A	297
Mzoughi Houda, Faouzi Zarai, Mohammad S. Obaidat, Balqies Sadoun, and Lotfi Kamoun	
Author Index	315

Simulation and Modeling Methodologies, Technologies
and Applications

International Conference, SIMULTECH 2016 Lisbon,
Portugal, July 29-31, 2016, Revised Selected Papers

Obaidat, M.S.; Oren, T.; Merkurjev, Y. (Eds.)

2018, XIV, 316 p. 145 illus., Softcover

ISBN: 978-3-319-69831-1