Contents

Front Velocity Modeling Approach to Column Chromatographic Characterization and Evaluation of Ketamine Enantiomers Separation with Simulated Moving Bed 1
Anderson Luis Jeske Bihain, Antônio José da Silva Neto and Leôncio Diógenes Tavares Câmara

Modeling Hybrid Systems with Petri Nets 17
Debjyoti Bera, Kees van Hee and Henk Nijmeijer

Automatic Tuning of Computational Models 43
Matteo Hessel, Fabio Ortalli, Francesco Borgatelli and Pier Luca Lanzi

Enhanced Interior Gateway Routing Protocol with IPv4 and IPv6 Support for OMNeT++ 65
Vladimír Veselý, Vít Rek and Ondřej Ryšavý

Simulating LTE/LTE-Advanced Networks with SimuLTE 83
Antonio Virdis, Giovanni Stea and Giovanni Nardini

Sensitivity Estimation Using Likelihood Ratio Method with Fixed-Sample-Path Principle 107
Koji Fukuda and Yasuyuki Kudo

A System Dynamics Simulator for Decision Support in Risk-Based IT Outsourcing Capabilities Management 131
Tarcio R. Bezerra, Antão Moura, Seth Bullock and Dietmar Pfahl

Analysis of Fractional-order Point Reactor Kinetics Model with Adiabatic Temperature Feedback for Nuclear Reactor with Subdiffusive Neutron Transport 153
Vishwesh A. Vyawahare and P.S.V. Nataraj

Analysis of Model Predictive Control for Fractional-Order System 173
Mandar M. Joshi, Vishwesh A. Vyawahare and Mukesh D. Patil

CFD Modeling of a Mixed Mode Boosted GDI Engine and Performance Optimization for the Avoidance of Knocking 195
Michela Costa, Ugo Sorge, Paolo Sementa and Bianca Maria Vaglieco

Real-Time Radar, Target, and Environment Simulator 217
Halit Ergezer, M. Furkan Keskin and Osman Gunay

Computationally-Efficient EM-Simulation-Driven Multi-objective Design of Compact Microwave Structures. 235
Slawomir Koziel, Adrian Bekasiewicz, Piotr Kurgan and Leifur Leifsson

Simulation-Based Optimization in Design-Under-Uncertainty Problems Through Iterative Development of Metamodels in Augmented Design/Random Variable Space 251
Alexandros A. Taflanidis and Juan Camilo Medina

Social Aggravation Estimation to Seismic Hazard Using Classical Fuzzy Methods 275
J. Rubén G. Cárdenas, Àngela Nebot, Francisco Mugica, Martha-Liliana Carreño and Alex H. Barbat

Fuzzy Cognitive Mapping and Nonlinear Hebbian Learning for the Qualitative Simulation of the Climate System, from a Planetary Boundaries Perspective 295
Iván Paz-Ortiz and Carlos Gay-García

The Optimization of a Surgical Clinical Pathway 313
Roberto Aringhieri and Davide Duma

Managing Emergent Patient Flow to Inpatient Wards: A Discrete Event Simulation Approach. 333
Paolo Landa, Michele Sonnessa, Elena Tànfani and Angela Testi

Author Index 351

http://www.springer.com/978-3-319-26469-1

Simulation and Modeling Methodologies, Technologies and Applications
International Conference, SIMULTECH 2014 Vienna, Austria, August 28-30, 2014 Revised Selected Papers
Obaidat, M.S.; Ören, T.; Kacprzyk, J.; Filipe, J. (Eds.)
2015, XVI, 352 p. 151 illus., 94 illus. in color., Softcover
ISBN: 978-3-319-26469-1