

Table of Contents

A Description Language for Environmental Fields Synthesis in Maritime Co-Simulation Scenarios <i>Liqun Wu and Axel Hahn</i>	1
Efficient Quantile Estimation When Applying Stratified Sampling and Conditional Monte Carlo, With Applications to Nuclear Safety <i>Marvin Nakayama</i>	6
Computational Vibrational Spectroscopy of Hydrophilic Drug Irinotecan <i>Bojana Koteska, Anastas Mishev, Maja Simonoska Crcarevska, Jasmina Tonic Ribarska, Marija Glavas Dodov, and Ljupco Pejov</i>	11
Numerical Simulation and Experimental Model-Validation for Fiber-Reinforced Plastics Under Impact Loading - Using the Example of Ultra-High Molecular Weight Polyethylene <i>Arash Ramezani and Hendrik Rothe</i>	17
A Comparison of Some Simple and Complex Surrogate Models: Make Everything as Simple as Possible? <i>Wim De Mulder, Bernhard Rengs, Geert Molenberghs, Thomas Fent, and Geert Verbeke</i>	26
Pedestrian Activity Simulation in Shopping Environments - An Irregular Network Approach <i>Jan Dijkstra and Joran Jessurun</i>	33
'An Integrated Modelling Approach for Spatial-aware Federated Simulation <i>Jingquan Xie, Rafal Kozik, and Nikolas Flourentzou</i>	40
Agent-Based Model to Simulate Outpatient's Consultations at the "Hospital de Clinicas" <i>Ramona Elizabeth Galeano Galeano, Cynthia Emilia Villalba Cardozo, Emilio Luque, and Dolores Rexachs</i>	46
Simulation of Device Behavior for InAlAs/InGaAs HEMT under Optical Illumination. <i>Pritam Sharma, Radhey Shyam Gupta, and Jyotika Jogi</i>	52
UrMo Accessibility Computer - A Tool for Computing Contour Accessibility Measures <i>Daniel Krajzewicz and Dirk Heinrichs</i>	56
Simulation of the Influence of Curb-Parking on the Efficiency of Designated Curb Bus Lanes <i>Marek Bauer</i>	61
Design and Control of a Mechatronic Vehicle Dynamics Simulator <i>Jorge de-J. Lozoya-Santos, Julio Salinas, Evaristo Mendez, Gerardo Gonzalez, Juan C. Tudon-Martinez, and Ricardo A. Ramirez-Mendoza</i>	67
Developing an Interface between ANSYS and Abaqus to Simulate Blast Effects on High Security Vehicles	73

Enrico Hansen, Nicole Ehlers, Arash Ramezani, and Hendrik Rothe

Modeling and Analyzing Enterprise Architectures to Examine the Feasibility of Network Centric Operations 77
Oliver Kroning and Hendrik Rothe

Effects of Elevated Temperatures on Ballistic Resistance of Ultra High Molecular Weight Polyethylene 85
Thore Heurich, Arash Ramezani, and Hendrik Rothe