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Mechatronic System Optimization based on Surrogate Models - Application to an Electric Vehicle
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Elastomeric Seismic Isolators Behavior at Different Pads Thickness
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Simulation of Shallow-water Flows in Complex Bay-like Domains
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Observations of Discrete Event Models
Gauthier Quesnel, Ronan Trépos and Éric Ramat

A Simple Efficient Technique to Adjust Time Step Size in a Stochastic Discrete Time Agent-based Simulation
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A Model-driven Approach to Build HLA-based Distributed Simulations from SysML Models
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A Simulation-based Scheduling Strategy for Scientific Workflows
Sergio Hernández, Javier Fabra, Pedro Álvarez and Joaquin Ezepeleta

SimCore: A Library for Rapid Development of Large Scale Parallel Simulations
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Simulation and Multi-Objective Optimization of Vacuum Ethanol Fermentation
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A Really Simple Explanation of Policy Punctuations? - Interdependence, Complexity, and Policy Punctuations
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A Framework to Provide Real Time Useful Knowledge in E-Learning Environments
*Ángela Nebot, Francisco Mugica and Félix Castro*

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Automatic Design Optimisation of Pharmaceutical Tablets using PDEs
*Norhayati Ahmad, Gabriela González Castro and Hassan Ugail*

A Structuring Mechanism for Embedded Control Systems using Co-modelling and Co-simulation
*Xiaochen Zhang and Jan F. Broenink*

Enhancing the Performances of D-MASON - A Motivating Example
*Michele Carillo, Gennaro Cordasco, Rosario De Chiara, Francesco Raia, Vittorio Scarano and Flavio Serrapica*

A Model for Simulation of Application and Resource Behavior in Heterogeneous Distributed Computing Environments
*Per-Olov Östberg*

A Meta-Model for DEVS - Designed following Model Driven Engineering Specifications
*Stéphane Garredu, Evelyne Vittori, Jean-François Santucci and Paul-Antoine Bisgambiglia*

OPN-Ont: Object Petri Nets Ontology Tool
*Lynda Dib and Fouad Bousetouane*

Simulation of Protection Mechanisms against Botnets on the Basis of “Nervous Network” Framework
*Igor Kotenko and Andrey Shorov*

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An Approach to Implementation of Physical Simulation Models
*Shpakov Vladimir*

Simulative Model and Multicriteria Optimization of Truss Beam in Super-Large Columns at High Temperature
*Yanzhen Liu, Hong Gao and Jinsheng Sun*

Simulation of Real-time Data Grid Systems via DGridSim Simulator
*Safai Tandoğan, Mustafa Mijdat Atanak and Atakan Doğan*
Two Modes of Scheduling in a Simple Economic Agent-Based Model
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A Fast, Efficient Multi-Direct Forcing of Immersed Boundary Method for Flow in Complex Geometry
Anyang Wei, Hui Zhao, Jin Jun and Jian Ren Fan

A Combined DTA Approach for Road Network Robustness Analysis
Minwei Li, Henk J. van Zuylen and Huimin Wen

SysML Parametric Models for Complex System Performance Analysis - A Case Study
Nga Nguyen and Hubert Kadima

Enhancing the RAMSAS Method for System Reliability Analysis - An Exploitation in the Automotive Domain
Alfredo Garro and Andrea Tundis

Modeling Cell Populations in Development using Individual Stochastic Regulatory Networks
Pawel Bednarz and Bartek Wilczynski

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Parametric Study of Complex Liquid Flow in a Centrifugal Pump Consisting of an Impeller, a Volute and a Diffuser
Guyh Dituba Ngoma, Walid Ghie and Nicolas La Roche-Carrier

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Jaedeuk Yun, Sungchoon Lee, Jianhui Fu, Jungwoon Lee, Yoongho Jung and Sungbae Park

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Anatoli Djranatliev, Peter Kolominsky-Rabas, Bernd M. Hofmann, Axel Aisenbrey and Reinhard German

Machine Modelling for Transient Stability Analysis in Distribution Grids - A Comparison of Synchronous and Induction Machine Models in Medium and Low Voltage Grids
Johannes Weidner and Lutz Hofmann

Plant Level Framework for Material Flow in a Nuclear Reprocessing Facility
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Simulation of Photovoltaics for Defence Applications - Power Generation Assessment and Investigation of the Available Integration Areas of Photovoltaic Devices on a Virtual Infantryman
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Dynamic Simulation of Opioid Misuse Outcomes
Alexandra Nielsen and Wayne Wakeland

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Carlos Gay Garcia and Iván Paz Ortiz

Simple Fuzzy Logic Models to Estimate the Global Temperature Change Due to GHG Emissions
Carlos Gay Garcia, Oscar Sánchez Meneses, Benjamin Martínez-López, Angela Nebot and Francisco Estrada

Prediction of PM2.5 Concentrations using Fuzzy Inductive Reasoning in Mexico City
Angela Nebot and Francisco Mugica

Rings in the Gulf of Mexico and Stochastic Resonance
Benjamin Martínez-López, Jorge Zavala-Hidalgo and Carlos Gay Garcia

SPECIAL SESSION ON HEALTH APPLICATIONS

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MetSim: A Simulation Decision Support Tool using Meteorological Information for Short-Term Planning of Hospital Services
Paul Harper, John Minty, Sujit Sahu, Bernard Baffour and Christophe Sarran

Sensitivity Analysis in Bed Capacity Studies including the Medical Staff’s Decision Making
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