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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Integration of Traffic Simulation and Propulsion Modeling to Estimate Energy Consumption for Battery Electric Vehicles -- Speeding Up the Evaluation of a Mathematical Model for VANETs using OpenMP -- The Stability Box for Minimizing Total Weighted Flow Time under Uncertain Data -- Numerical Modelling of Nonlinear Diffusion Phenomena on a Sphere -- Simulation, Parameter Estimation and Optimization of an Industrial-scale Evaporation System -- High Detailed Lava Flows Hazard Maps by a Cellular Automata Approach -- A Consistent Preliminary Design Process for Mechatronic Systems -- A Process based on the Model-driven Architecture to Enable the Definition of Platform-independent Simulation MODELS -- Dynamic Response of a Wind Farm Consisting of Doubly-fed Induction Generators to Network Disturbance -- Educational Simulators for Industrial Process Control -- Simulation-based Development of Safety Related Interlocks -- Modelling Molecular Processes by Individual-based Simulations Applied to Actin

Polymerisation -- Marine Ecosystem Model Calibration through Enhanced Surrogate-based Optimization -- Hydrodynamic Shape Optimization of Axisymmetric Bodies using Multi-fidelity Modeling -- Analysis of Bulky Crash Simulation Results: Deterministic and Stochastic Aspects -- Integration of Optimization to the Design of Pulp & Paper Production Processes -- Variation-aware Circuit Macromodeling and Design based on Surrogate Models -- Analysis and Optimization of Bevel Gear Cutting Processes by Means of Manufacturing Simulation.

Sommario/riassunto

This volume includes extended and revised versions of the best papers of the 1st International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH-2011). The purpose of this conference is to bring together researchers, engineers, applied mathematicians and practitioners interested in the advances and applications in the field of system simulation. It has four simultaneous tracks, covering on one side domain independent methodologies and technologies and on the other side practical work developed in specific application areas. The specific topics listed under each of these tracks highlight the interest of this conference in aspects related to computing, including Conceptual Modeling, Agent Based Modeling and Simulation, Interoperability, Ontologies, Knowledge Based Decision Support, Petri Nets, Business Process Modeling and Simulation, amongst others.
