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Titolo	Methods and Applications for Modeling and Simulation of Complex Systems : 22nd Asia Simulation Conference, AsiaSim 2023, Langkawi, Malaysia, October 25–26, 2023, Proceedings, Part II // edited by Fazilah Hassan, Noorhazirah Sunar, Mohd Ariffanan Mohd Basri, Mohd Saiful Azimi Mahmud, Mohamad Hafis Izran Ishak, Mohamed Sultan Mohamed Ali
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Descrizione fisica	1 online resource (510 pages)
Collana	Communications in Computer and Information Science, , 1865-0937 ; ; 1912
Disciplina	003.3
Soggetti	Computer simulation Computer science - Mathematics Image processing - Digital techniques Computer vision Artificial intelligence Computer networks Computer Modelling Mathematics of Computing Computer Imaging, Vision, Pattern Recognition and Graphics Artificial Intelligence Computer Communication Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Identification of First Order plus Dead Time for a pH neutralization process using open loop test -- Tapered Angle Microfluidic Device for Cell Separation Using Hydrodynamic Principle -- Solving a Mobile Robot Scheduling Problem using Metaheuristic Approaches -- Research on General Automatic Test Platform for Onboard Automatic Train Protection -- Research and Implementation of Simulation Testing Technology for Train Control System Based on Satellite Positioning -- A Study on Correspondence Point Search Algorithm Using Bayesian

Estimation and Its Application to a Self-Position Estimation for Lunar Explorer -- Calculation of Stress Intensity Factors Under Mode-I Using Total Lagrangian Smoothed Particle Hydrodynamics -- Enriching On-orbit Servicing Mission Planning with Debris Recycling and In-space Additive Manufacturing -- Attitude and Altitude Control of Quadrotor MAV using FOPID Controller Stabilization and Altitude Tracking of Quadrotor using Backstepping Controller -- Stabilization and Altitude Tracking of Quadrotor using Backstepping Controller with a Saturation Compensator -- Noise Analysis of Miniature Planar Three-Dimensional Electrical Capacitance Tomography Sensors -- A Preliminary Investigation on The Correlation Between the Arrival Time of Ultrasonic Signals and The Concrete Condition -- A Fast Algorithm for Satellite Coverage Window Based on Segmented Dichotomy -- A simulation of single and segmented excitation in Electrical Capacitance Tomography system -- Robust Input Shaping for Swing Control of an Overhead Crane -- Sway Control of a Tower Crane with Varying Cable Length using Input Shaping -- Numerical Study of Sensitivity Enhancement in Optical Waveguide Sensor Due to Core Diameter -- Stress Simulation of Polydimethylsiloxane-coated Fiber Bragg Grating Bend Sensor -- 3D computational modelling of ctDNA separation using Superparamagnetic Bead Particles in Microfluidic Device -- Ensemble Differential Evolution with Simulation-Based Hybridization and Self-Adaptation for Inventory Management Under Uncertainty -- Intelligent Decision Support System (iDSS) for Manufacturing Data Corpus -- Influence of thickness and relative permittivity of triboelectric materials on CS-TENG performance: A simulation study -- Performance Evaluation of Evolutionary Under Sampling and Machine Learning Techniques for Network Security in Cloud Environment -- Scalable and Efficient Big Data Management and Analytics Framework for Real-Time Deep Decision Support -- Enhancing Efficiency in Aviation and Transportation Through Intelligent Radial Basis Function -- Advanced Computer-Aided Design Using Federated Machine Learning for Creative Design Processes -- Analysis of fuel concentration effect toward carbon nanotubes growth in methane diffusion flame using CFD simulations -- Numerical Investigation on the Influence of Protrusion Height on Heat Transfer and Fluid Flow within Rectangular Channel with Nanofluid -- Ultrasonic Sensors in Companion Robots: Navigational Challenges and Opportunities -- Convergence Study of Three-Dimensional Upper Skull model: A Finite Element Method -- Analyzing the Use of Scaffolding Based on Different Learning Styles to Enhance the Effectiveness of Game-Based Learning -- Real-Time Simulation for Controlling the Mobility of an Unmanned Ground Vehicle Based on Robot Operating System -- Scattering Source Determination Using Deep Learning for 2-D Scalar Wave Propagation -- Optimal Control of Double Pendulum Crane Using FOPID and Genetic Algorithm -- SHADOW: Silent-Based Hybrid Approach for Dynamic Pseudonymization and Privacy Preservation in Vehicular Networks -- Control of Electrical and Calcium Alternans on a One-Dimensional Cardiac Cable -- Study the Effect of Acute Stress on Decision Making Using Function Near Infrared Spectroscopy (fNIRS) -- A Survey and Analysis on Customer Satisfaction of Bitter Melon Supplement by A Distributor -- Enhancement of OWASP Monitoring System with Instant Notification.

Sommario/riassunto

This book constitutes the refereed proceedings of the 22nd Asia Simulation Conference on Methods and Applications for Modeling and Simulation of Complex Systems, AsiaSim 2023, held in Langkawi, Malaysia, during October 25–26, 2023. The 77 full papers included in this book were carefully reviewed and selected from 164 submissions. They were organized in topical sections as follows: Modelling and

Simulation, Artificial intelligence, Industry 4.0, Digital Twins Modelling,
Simulation and Gaming, Simulation for Engineering, Simulation for
Sustainable Development, Simulation in Social Sciences.
