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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 contenuto	-- Best Paper Nominees. -- A Quantitative Learning Method for Simulation Model Evaluation using L-SHADE Optimized Structured Regression. -- Robust Lunar-Image Matching Under Disturbance: High-Precision Comparison of RANSAC, RL-RANSAC, and MLESAC. -- Aeroassisted Orbital Transfer Optimization Using Sequential Convex Programming. -- Towards Intelligent MBSE: Constructing an MBSE Model Dataset for Generative AI. -- Full Papers. -- Logistics Digital Twin for Sustainability Management. -- Learning to Optimize Capacity Planning in Semiconductor Manufacturing. -- A Credible Evolution Method for Digital Twins Based on LSTM–Decoder-Only Architecture.

-- Decentralised Blockchain Management Through Digital Twins. -- Implicit Neural Representation for DEM Super-Resolution in Vehicle Motion Simulation. -- A Modeling Method for the Pressing Process of Explosive Molding Powder Based on Particle Size Distribution. -- Simulation and Verification of Explosive Powder Compression Molding Based on Thermodynamic Elastoplastic Model. -- Research on speed control of permanent magnet synchronous motor simulation model based on FOC. -- Modeling and Simulation of Underwater Active Electric Field Detection Based on Compact Electrode Structure. -- Driving Closer to the Limit: Improved Virtual Racecar Drivers with Data-Driven Control. -- B-Spline based Aerodynamic Table Look-up for Cyber in the Loop Simulation of Air Vehicle Cyber-Physical System. -- Spacecraft Evasive Maneuvering Based on Neural Network Pattern Recognition and an Improved SA-GA Algorithm. -- Dynamic Modeling and Motion Control of A Thruster-Assisted Bipedal Robot. -- Enhancing Nonlinear Dynamics and Processing Efficiency in Chaotic Stream Cipher via Branching Structures. -- Mechanism Simulation of Lithium Polysulfide Conversion Catalyzed by Ti₃C₂ MXene with Different Terminals. -- Short Papers. -- Analytical 3D Trajectory Solution and Simulation Analysis for Reentry Glide Vehicles Based on the Perturbation Method. -- Evaluating Hospital Disaster Resilience Using Simulation: Integrating Task Duration and Intra-Hospital Patient Transfer. -- Personalized Federated Learning via Dual Alignment of Semantic Knowledge and Feature Prototypes. -- A Chain-of-Thought-based Model Auto-Configuration Method for Customized Production Simulation. -- Entropy-Based Visualization of Missing Regions in 2.5D Cultural Heritage Point Clouds. -- Modular Physics Simulation Approach for Amazon FC- Case Study. -- Knowledge graph-enhanced large language model approach for device fault diagnosis question answering. -- On Linking Learning and Game Goal in Serious Games Design.

Sommario/riassunto

This book constitutes the refereed proceedings of the 24th Asia Simulation Conference on Methods and Applications for Modeling and Simulation of Complex Systems, AsiaSim 2025, held in Singapore, during November 17-19, 2025. The 19 full papers and 8 short papers presented here, were carefully reviewed and selected from 54 submissions. They are grouped into the following topics: Agent Based Simulation, Simulation Methods and Tools, Visualization, Modeling Methodology, and Simulation Applications in Science and Engineering.
