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Titolo	Methods and Applications for Modeling and Simulation of Complex Systems : 23rd Asia Simulation Conference, AsiaSim 2024, Kobe, Japan, September 17–20, 2024, Proceedings / / edited by Seiki Saito, Satoshi Tanaka, Liang Li, Satoshi Takatori, Yuichi Tamura
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Collana	Communications in Computer and Information Science, , 1865-0937 ; ; 2170
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	Methods for Simulation and Modeling -- Simulation of overall performance of jack up platforms under multiple working conditions -- DFMM An Object Tracking Approach Based on Deep Feature Modification -- Semi physical modeling and simulation for industrial product design based on X language -- RGFormer Residual Gated Transformer for Image Captioning -- Knowledge Graph Construction Method of Bridge Design Codes Based on Ontology and Specification Parsing -- Data driven Dynamic Decision making Strategy for Gear Shaft Robotic Assembly Process -- Simulation for Science Industry and Society -- A Multiview Approach for Pedestrian 3D Pose Detection and

Reconstruction -- Simulation of space radiation model for multilayer electret based low frequency antennas -- Reduction of Knocking Sound Annoyance Through Engine Sound Order Simulation -- Inference of a multi server queue using external observations -- Interdisciplinary Simulation and Machine Learning -- Development of Numerical Simulation Method for Analyzing the Refreezing Process of Ice Dust Irradiated by Cosmic Rays -- Model Calibration for Agent based Simulation Using A Pattern Clustering Network -- An Intelligent Simulation Result Validation Method Based on Variational Autoencoder -- Improved Priority based Hindsight Experience Replay in Reinforcement Learning -- Deep learning for ultrafiltration membrane prediction in drinking water treatment -- Autonomous Navigation with Feature Points Map for Self Position Estimation for High Accuracy Landing on Unknown Celestial Bodies -- FedLGN Federated lightweight graph neural network for recommendation -- Research on Digital Twin Technology for Converter Steelmaking -- Pool based active classification based on expected error reduction with uncertainty subsampling -- Networks and Complex Systems -- Network robustness assessment via edge criticality evaluation improvement of bridgness and topological overlap methods by the iterative metrics re estimation -- Edge Criticality Evaluation in Complex Structures and Networks Using an Iterative Edge Betweenness -- Risks of Supply Chain Disruption and Market Concentration Constructing Conceptual Models of Transaction Structures in Supply Chain Networks -- Modeling, Simulaiton and Visualization of Digital Twin -- A Digital Twin Based Obstacle Avoidance System for Quadcopter UAV -- IR4AAS An Identification Resolution enhanced AAS for Digital Twins Modeling -- Research and implementation of digital twin modeling and simulation platform -- Noise Transparentization Approach for High precision Visualization of 3D Scanned Point Clouds -- Research on remote operation and maintenance of heat treatment factory integrated with 5G and digital twin -- Research on Worker Action Recognition and Evaluation in Intelligent Manufacturing Training Based on Industrial Metaverse.

Sommario/riassunto

This book constitutes the refereed proceedings of the 23rd Asia Simulation Conference on Methods and Applications for Modeling and Simulation of Complex Systems, AsiaSim 2024, held in Kobe, Japan, during September 17–20, 2024. The 28 full papers presented here, were carefully selected and reviewed from 120 submissions. These papers have been categorized into the following topical sections: Methods for Simulation and Modeling; Simulation for Science, Industry and Society; Interdisciplinary Simulation and Machine Learning; Networks and Complex Systems & Modeling, Simulaiton, and Visualization of Digital Twin. .
