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Nota di contenuto	-- Simulation Tools and Methods. -- A DEVS-based methodology for simulation and model-driven development of IoT. -- Performance Evaluation of a Legacy Real-Time System: An Improved RAST Approach. -- KNXsim: Simulator tool for KNX home automation training by means of group addresses. -- Development of a 3D visualization interface for virtualized UAVs. -- Test-Driven Simulation of Robots Controlled by Enzymatic Numerical P Systems Models. -- PySPN: An Extendable Python Library for Modeling & Simulation of Stochastic Petri Nets. -- Replacing Sugarscape: A Comprehensive, Expansive, and Transparent Reimplementation. -- Artificial Intelligence and Simulation. --

Generative AI with Modeling and Simulation of Activity and Flow-based Diagrams. -- Wildfire Risk Mapping based on Multi-Source Data and Machine Learning. -- An Intelligent Ranking Evaluation Method of Simulation Models Based on Graph Neural Network. -- Simulation of drinking water infrastructures through artificial intelligence-based modelling for sustainability improvement. -- Transportation and Logistics. -- Spatio-temporal Speed Metrics for Traffic State Estimation on complex Urban Roads. -- Integrating Efficient Routes with Station Monitoring for Electric Vehicles in Urban Environments: Simulation and Analysis. -- Comparing the Efficiency of Traffic Simulations using Cellular Automata. -- Multi-Agent Simulation for Scheduling and Path Planning of Autonomous Intelligent Vehicles. -- Medical Sciences. -- ECG pre-processing and feature extraction tool for intelligent simulation systems. -- OTOVIRT: An image-guided workflow for individualized surgical planning and multiphysics simulation in cochlear implant patients. -- Network Simulations. -- Adaptive sharing of IoT resources through SDN-based microsegmentation of services using Mininet. -- UAV-Assisted Wireless Communications: An Experimental Analysis of A2G and G2A Channels. -- Trajectory-Aware Rate Adaptation for Flying Networks -- Rate Adaptation Aware Positioning for Flying Gateways using Reinforcement Learning. -- RateRL: A Framework for Developing RL-Based Rate Adaptation Algorithms in ns-3. -- On the Analysis of Computational Delays in Reinforcement Learning-based Rate Adaptation Algorithms.

Sommario/riassunto

This proceedings constitutes the refereed post-conference proceedings of the 15th International Conference on Simulation Tools and Techniques, SIMUTools 2023, held in Seville, Spain, in December 2023. The 23 revised full papers were carefully selected from 58 submissions. The papers focus on various areas such as Simulation Tools and Methods; Artificial Intelligence and Simulation; Transportation and Logistics; Medical Sciences; and Network Simulations.
