1. Record Nr. UNINA9910999790903321

Titolo	Simulation Tools and Techniques : 16th EAI International Conference, SIMUtools 2024, Bratislava, Slovakia, December 9–10, 2024, Proceedings / / edited by Angel A. Juan, José-Luis Guisado-Lizar, María-José Morón-Fernández, Elena Perez-Bernabeu
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-87345-9
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (XIV, 420 p. 140 illus., 108 illus. in color.)
Collana	Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, , 1867-822X ; ; 603
Disciplina	005.1
Soggetti	Software engineering Computer networks Artificial intelligence Computer simulation Software Engineering Computer Communication Networks Artificial Intelligence Computer Modelling
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Simulation Tools and Methods -- Sim-Learnheuristics: A Tool for Decision Making under Stochastic and Dynamic Conditions -- The Role of Interfaces in Modelling -- Interfaces in Ecosystems: Concepts, Form, and Implementation -- Minimalistic System Modelling: Behaviours, Interfaces, and Local Reasoning -- Traffic Simulations -- Integrating Simulation and AI for Optimal Electric Vehicle Charging Infrastructure: Achievements and Future Directions -- Integrating Fast Electric Vehicle Charging and Charge-Site Power-Limiting in SUMO -- A Simheuristic for the Stochastic Multi-Depot Traveling Facility Location Problem with Electric Vehicles -- Effect of Maintenance and Failure on Electrical Vehicles Charging Scheduling at an Airport -- Validation and Verification Techniques in Simulation Modelling for Freight Transportation -- Logistics and Manufacturing -- A Simulation-

Optimisation Tool for Routing Drones in Realistic Conditions -- AKRIMA - An Automated Adaptive System for Crisis Monitoring and Management -- ARMS: Activity-Resource Modelling Simulator -- Improvements to the Region-based Petri Nets Synthesis Algorithm for Process Mining -- Cross-Dataset Generalization: Bridging the Gap Between Real and Synthetic LiDAR Data -- Robotics Simulations -- On the Simulation of a Neuromorphic Robotic Arm with Dynamic Control for Rapid Trajectories Evaluation -- On Implementing the Sparse Events Closed-Loop Control Theory for the CartPoleSimulation -- Simulation and Operation of a 6DoF Robotic Arm: A Microservices Approach -- Flexible Visualization for Modular Autonomy Cores of Autonomous Robot Swarms -- Applications of Simulations -- A653MSim: An ARINC 653 Multicore Simulator -- Docker-based Web Service to Aid Prostate Cancer Diagnosis using Deep-learning Techniques -- Seamless Data Persistence in Simulation Models: A Metaprogramming Approach in Julia -- Network Simulations -- Positioning of a Next Generation Mobile Cell to Maximise Aggregate Network Capacity -- Dynamic Data Radio Bearer Management for O-RAN Slicing in 5G Standalone Networks -- CyReal: A Unified Framework for Continuous Evaluation of Simulations, Emulations, and Real Systems -- JASPER: An Agent-Based Simulation Tool for Test and Evaluation of Jammer-Angle Allocation Algorithms -- Barriers and Challenges of Network Simulation Tools: A Case Study on CORE/EMANE.

Sommario/riassunto

This book constitutes the refereed post-conference proceedings of the 16th EAI International Conference on Simulation Tools and Techniques, SIMUTools 2024, held in Bratislava, Slovakia, in December 2024. The 26 full papers included in this book were carefully reviewed and selected from 63 submissions. They were organized in topical sections as follows: simulation tools and methods, traffic simulations, logistics and manufacturing, robotics simulations, applications of simulations, and network simulations.

2. Record Nr. UNINA9910254318103321

Titolo	Geoenvironmental Practices and Sustainability : Linkages and Directions / / edited by G.L. Sivakumar Babu, Krishna R. Reddy, Anirban De, Manoj Datta
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2017
ISBN	981-10-4077-X
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XV, 343 p. 160 illus., 81 illustration in color.)
Collana	Developments in Geotechnical Engineering, , 2364-5164
Disciplina	624.51
Soggetti	Engineering geology Sustainability Refuse and refuse disposal Geoengineering Waste Management/Waste Technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Geophysical Imaging of Landfill Interiors: Examples from Northern Illinois, USA -- Evolution of Municipal Solid Waste Shear Strength Parameters with Biodegradation – A Large-Scale Laboratory Study -- Environmental Benign Electrokinetics for Landslides Mitigation -- Recent Advances in Seismic Design of MSW Landfill Considering Stability -- Dynamic properties of Municipal Solid Waste and Amplification of Landfill site -- A Methodology for Load Resistance Factor Design (LRFD) for MSW Landfill Slopes -- Rehabilitation and Expansion of Operational Municipal Solid Waste (MSW) Dumps of India -- Surface Charge Properties and Particle Size Analysis of Red Mud Waste from Zeta Potential Measurements -- Sustainable Management of Dredged Sediments and Waste Using Geotextile Tube Dewatering System -- Site Characterization of Landfills through In-Situ Testing -- Effective Management of Aged Stockpiled Solid Wastes in India -- Advances in Raman Spectroscopy for the Geoenvironment -- Sustainable Design of Monopile Supported Offshore Wind Turbine Considering Climate Change -- Axial Stress Distribution in Geothermal Energy Pile Group in Sand -- Importance of Non-stationarity in

Sustainability and Resilience of Geo-Infrastructure -- Reliability based sustainable design of piled-raft supported structure -- Quality Control and Quality Assurance for Large Infrastructure Projects -- Risk Management: Challenges and Practice for U.S. Dam and Levee Safety -- Energy Geotechnics – Towards a Sustainable Energy Future -- Performance evaluation of coal ash-based barrier based landfill covers subjected to flexural distress -- Sustainability analysis of the Vertical Barriers based on Energy and Carbon Assessment for leachate containment -- Geotechnical Characterization and Performace Assessment of Organo clay Enhanced Bentonie Mixtures for Use in Sustainable Barriers -- Observations of Field Condition of an Exposed Geosynthetics Liner System -- Advances in Bentonite-Based Containment Barriers.-Feasibility Study of Sand–Tire Chips Mixtures as Backfill Material in Retaining Walls -- Shredded Waste Tires as a Geomaterial -- Strength Characteristics of Geopolymer Fly ash Stabilized Reclaimed Asphalt Pavement Base Courses -- Sustainable Waste Management Using MSE Berms at Disposal Sites -- Heavy Metal Removal by Aquatic Plants and Its Disposal by Using As a Concrete Ingredient -- Human Health Risk Based Sustainable Management For A Contaminated Site -A Case Study -- Coupled Hydro-Bio-Mechanical Modeling of Bioreactor Landfills: New Modeling Framework and Research Challenges -- Electromagnetic Enhancement of Microbially-Induced Calcite Precipitation.

Sommario/riassunto

This volume is a compilation on issues related to sustainable practices in geo-environmental engineering, particularly as applying to developing nations such as India. While, the developed world has already developed some solutions such as landfills, developments in landfills, barriers and liners in the North America and waste-to-energy and waste incineration in Europe, developing countries like India are trying to figure out ways which suit the present condition without compromising the future needs and comforts. This volume presents case studies on the various problems and solutions adopted for different sites. Although a common approach for all the problems is not feasible or recommend, this collection aims to provide a compendium on the current efforts underway and to help achieve common ground for the practitioners and researchers involved. The works included here give insight to the possible development of resilient and sustainable structures (like offshore wind turbines) and energy geotechnics. The book covers topics such as liners and barrier systems, use of recycled and waste materials, waste management and hazard assessment, sustainable infrastructure, and sustainability and the environment. The contents of this book will be useful to researchers and professionals working in geo-environmental engineering. The book will also be useful to policy makers interested in understanding geotechnical concerns related to sustainable development. .