

1. Record Nr.	UNISA996495564403316
Titolo	Methods and applications for modeling and simulation of complex systems : 20th Asian Simulation Conference, AsiaSim 2021, virtual event, November 17-20, 2021, proceedings / / Byeong-Yun Chang and Changbeom Choi (editors)
Pubbl/distr/stampa	Singapore : , : Springer, , [2022] ©2022
ISBN	981-19-6857-8
Descrizione fisica	1 online resource (109 pages)
Collana	Communications in computer and information science ; ; Volume 1636
Disciplina	003.3
Soggetti	Computer simulation System design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Preface -- Organization -- Contents -- Simulation and Visualization -- Toward Agent-Based In Situ Visualization -- 1 Introduction -- 2 Related Work -- 3 Camera Agent -- 4 Application Tests -- 4.1 3-D Cellular Automata -- 4.2 CA of Rule[4/4/5/M] -- 4.3 CA of Rule[5/4,5/2/M] -- 5 Summary -- References -- Application of the Edge Upsampling Network to Soft-Edge Regions in a 3D-Scanned Point Cloud -- 1 Introduction -- 2 Methods -- 2.1 Opacity-Based Edge Highlighting of Soft Edges -- 2.2 Proposed Upsampling Network -- 2.3 Steps to Highlight the Soft Edges -- 3 Experiments -- 3.1 Transparent Edge-Highlighting Visualization of Japanese Armor -- 3.2 Edge Highlighting of Cultural Heritage Reliefs -- 4 Conclusions -- References -- A Visual Analytics Method for Time-Series Log Data Using Multiple Dimensionality Reduction -- 1 Introduction -- 2 Related Work -- 3 Methodology -- 3.1 Time Selection -- 3.2 Space Selection -- 4 Experimental Result -- 5 Discussion -- 6 Conclusion -- References -- Modeling and Simulation of Systems -- Comparing the Conversion Effects of Toll Operations for Seoul Tollgate Using Arena -- 1 Introduction -- 2 Theory Background -- 2.1 Lane Types of Tollgates -- 2.2 Speed Factors Based on Weather Conditions -- 2.3 Toll Operations -- 3 Simulation -- 3.1 Data -- 3.2 Assumptions -- 3.3 Modeling -- 3.4

Scenarios -- 4 Experiment Results -- 4.1 Criteria -- 4.2 Number of Replications -- 4.3 Results of the Simulation -- 5 Conclusion -- References -- CollabOffloading: A Computational Offloading Methodology Using External Clouds for Limited Private On-Site Edge Servers -- 1 Introduction -- 2 Background -- 2.1 Kubernetes -- 3 CollabOffloading Methodology -- 3.1 Structure of CollabOffloading Methodology -- 3.2 Design of CollabOffloading Kube-Scheduler -- 4 Experiments -- 4.1 Experiment Design. 4.2 Case Study: Tollgate Selection Simulation Scenario -- 4.3 Experiment Performance Evaluation -- 4.4 Graphical User Interface (GUI) for CollabOffloading Platform -- 5 Conclusion -- References -- Experiments on the Battle Trend and Result of Combat21 Model and VBS4 -- 1 Introduction -- 1.1 Research Background -- 1.2 Motivation -- 1.3 Method -- 1.4 Scope -- 2 Introduction of the Wargame Models -- 2.1 Combat21 model -- 2.2 VBS4 -- 3 Experiments -- 3.1 Experimental Plan and Environment Setting -- 3.2 Measured Results -- 4 Conclusion -- 4.1 Conclusion and Suggestion -- 4.2 Limitations -- References -- A Study on SES-Based Information Security Framework for Autonomous Vehicle Controlling Environment -- 1 Introduction -- 2 Related Works -- 3 Autonomous Vehicle Controlling Environment -- 3.1 Service Scenarios of Autonomous Vehicles -- 3.2 SES Structure -- 4 Conclusions and Future Work -- References -- Cross-Retransmission Techniques in Licensed and Unlicensed Spectrum Bands over Wireless Access Networks -- 1 Introduction -- 2 Channel Access Mechanism in Unlicensed Spectrum -- 3 HARQ Retransmissions in Licensed and Unlicensed Spectrum -- 3.1 HARQ Retransmission via UCC -- 3.2 HARQ Retransmission via LCC -- 3.3 HARQ Retransmission via One of Any Available LCC and UCC -- 4 Performance Evaluation -- 4.1 Simulation Results -- 4.2 Comparison of HARQ Retransmission Techniques -- 5 Conclusion -- References -- Beneficial Online Price Coordination in the O2O Era Added Mobile Channel -- 1 Introduction -- 2 Literature Review -- 2.1 Mobile Channel -- 2.2 Coordination Incentive Mechanisms -- 2.3 Price Differentiation -- 3 Models -- 3.1 O2O&M Supply Chain -- 4 Coordination with Price Discount Contracts -- 4.1 Online Computer Channel Price Discount Contract -- 4.2 Online Mobile Channel Price Discount Contract. 4.3 Offline Traditional Retailer Price Discount Contract -- 5 Conclusions -- References -- Author Index.
