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Uncertainty and Intelligent Information Systems
International Conference on Innovative Computing and Communications
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Complexity and Emergence
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Network Models and Optimization
Computational Intelligence in Sensor Networks
Theory, Methodology, Tools and Applications for Modeling and Simulation of Complex Systems
Modeling, Design and Simulation of Systems
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ECOWAS and the Dynamics of Conflict and Peace-building

Simulation of Urban Mobility
Complex Systems Design & Management Asia
Modelling Passenger Flows in Public Transport Facilities
Methods and Applications for Modeling and Simulation of Complex Systems
Information Lives of the Poor
Microgrid Design and Operation: Toward Smart Energy in Cities

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Uncertainty and Intelligent Information Systems AsiaSim 2013

Intelligent systems are necessary to handle modern computer-based technologies managing information and knowledge. This book discusses the theories required to help provide solutions to difficult problems in the construction of intelligent systems. Particular attention is paid to situations in which the available information and data may be imprecise, uncertain, incomplete or of a linguistic nature. The main aspects of clustering, classification, summarization, decision making and systems modeling are also addressed. Topics covered in the book include fundamental issues in uncertainty, the rapidly emerging discipline of information aggregation, neural networks, Bayesian networks and other network methods, as well as logic-based systems.

International Conference on Innovative Computing and Communications Springer

This book discusses applications of computational intelligence in sensor networks. Consisting of twenty chapters, it addresses topics ranging from small-scale data processing to big data processing realized through sensor nodes with the help of computational approaches. Advances in sensor technology and computer networks have enabled sensor networks to evolve from small systems of large sensors to large nets of miniature sensors, from wired communications to wireless communications, and from static to dynamic network topology. In spite of these technological advances, sensor networks still face the challenges of communicating and processing large amounts of imprecise and partial data in resource-constrained environments. Further, optimal deployment of sensors in an environment is also seen as an intractable problem. On the other hand, computational intelligence techniques like neural networks, evolutionary computation, swarm intelligence, and fuzzy systems are gaining popularity in solving intractable problems in various disciplines including sensor networks. The contributions combine the best attributes of these two distinct fields, offering readers a comprehensive overview of the emerging research areas and presenting first-hand experience of a variety of computational intelligence approaches in sensor networks.

Network Simulation Springer

Model Free Adaptive Control: Theory and Applications summarizes theory and applications of model-free adaptive control (MFAC). MFAC is a novel adaptive control method for the unknown discrete-time nonlinear systems with time-varying parameters and time-varying structure, and the design and analysis of MFAC merely depend on the measured input and output data of the controlled plant,

which makes it more applicable for many practical plants. This book covers new concepts, including pseudo partial derivative, pseudo gradient, pseudo Jacobian matrix, and generalized Lipschitz conditions, etc.; dynamic linearization approaches for nonlinear systems, such as compact-form dynamic linearization, partial-form dynamic linearization, and full-form dynamic linearization; a series of control system design methods, including MFAC prototype, model-free adaptive predictive control, model-free adaptive iterative learning control, and the corresponding stability analysis and typical applications in practice. In addition, some other important issues related to MFAC are also discussed. They are the MFAC for complex connected systems, the modularized controller designs between MFAC and other control methods, the robustness of MFAC, and the symmetric similarity for adaptive control system design. The book is written for researchers who are interested in control theory and control engineering, senior undergraduates and graduated students in engineering and applied sciences, as well as professional engineers in process control.

Complexity and Emergence Rowman & Littlefield

Through specific readings and uses of Deleuze's conceptual apparatus, this volume examines the operation of human-actioned systems as complex and heterogeneous arenas of affection and accountability.

Vehicular-2-X Communication IDRC

Few books comprehensively cover the software and programming aspects of reversible computing. Filling this gap, Introduction to Reversible Computing offers an expanded view of the field that includes the traditional energy-motivated hardware viewpoint as well as the emerging application-motivated software approach. Collecting scattered knowledge into one coherent account, the book provides a compendium of both classical and recently developed results on reversible computing. It explores up-and-coming theories, techniques, and tools for the application of reversible computing—the logical next step in the evolution of computing systems. The book covers theory, hardware and software aspects, fundamental limits, complexity analyses, practical algorithms, compilers, efficiency improvement techniques, and application areas. The topics span several areas of computer science, including high-performance computing, parallel/distributed systems, computational theory, compilers, power-aware computing, and supercomputing. The book presents sufficient material for newcomers to easily get started. It provides citations to original articles on seminal results so that readers can consult the corresponding publications in the literature. Pointers to additional resources are included for more advanced topics. For those already familiar with a certain topic within reversible computing, the book can serve as a one-stop reference to other topics in the field.

Network Models and Optimization Springer Science & Business Media

IEEE CCNC 2019 will present the latest developments and technical solutions in the areas of home networking, consumer networking, enabling technologies (such as middleware) and novel applications and services. The conference will include a peer reviewed program of technical sessions, special sessions, business application sessions, tutorials, and demonstration sessions.

Computational Intelligence in Sensor Networks Springer

This book constitutes the proceedings of the 17th International Conference on Distributed Computing and Internet Technology, ICDCIT 2020, held in Bhubaneswar, India, in January 2021. The 13 full papers presented together with 4 short papers were carefully reviewed and selected from 99 submissions. The papers were organized in topical sections named: invited talks, cloud computing and networks, distributed algorithms, concurrency and parallelism, graph algorithms and security, social networks and machine learning, and short papers.

Theory, Methodology, Tools and Applications for Modeling and Simulation of Complex Systems Springer Science & Business Media

This book provides an emerging computational intelligence tool in the framework of collective intelligence for modeling and controlling distributed multi-agent systems referred to as Probability Collectives. In the modified Probability Collectives methodology a number of constraint handling techniques are incorporated, which also reduces the computational complexity and improved the convergence and efficiency. Numerous examples and real world problems are used for illustration, which may also allow the reader to gain further insight into the associated concepts.

Modeling, Design and Simulation of Systems Springer

With the growth of renewable energy sources, microgrids have become a key component in the distribution of power to localized areas while connected to the traditional grid or operating in a disconnected island mode. Based on the extensive real-world experience of the authors, this cutting-edge resource provides a basis for the design, installation, and day-by-day management of microgrids. Professionals find coverage of the critical aspects they need to understand, from the initial planning and the selection of the most appropriate technologies and equipment, to optimal management and real-time control. Moreover, this forward-looking book places emphasis on new architectures of the energy systems of the future. Written in accessible language with practical examples, the book explains advanced topics such as optimization algorithms for energy management systems, control issues for both on-grid and island mode, and microgrid protection. Practitioners are also provided with a complete vision for the deployment of the microgrid in smart cities.

Handbook of Simulation Optimization Springer Nature

This volume constitutes the proceedings of the 20th Asian Simulation Conference, AsiaSim 2021, held as a virtual event in November 2021. The 9 full papers presented in this volume were carefully reviewed and selected from 23 submissions. The papers are organized in topical sections on simulation and visualization; modeling and simulation of systems.

Distributed Computing and Internet Technology Springer Nature

This volume constitutes the proceedings of the 18th Asia Simulation Conference, AsiaSim 2018, held in Kyoto, Japan, in August 2018. The 45 revised full papers presented in this volume were carefully reviewed and selected from 90 submissions. The papers are organized in topical sections on

modeling and simulation technology; soft computing and machine learning; high performance computing and cloud computing; simulation technology for industry; simulation technology for intelligent society; simulation of instrumentation and control application; computational mathematics and computational science; flow simulation; visualization and computer vision to support simulation.

Mobile Web and Intelligent Information Systems Springer

ECOWAS and the Dynamics of Conflict and Peace-building testifies to the fact that we cannot talk of West African affairs, more so of conflict and peace-building, without talking about ECOWAS. For over two decades now, West Africa has remained one of Africa's most conflict-ridden regions. It has been a theatre of some of the most atrocious brutalities in the modern world. It has, nonetheless, witnessed one of the most ambitious internal efforts towards finding regional solutions to conflicts through ECOWAS. The lead role of ECOMOG - the ECOWAS peacekeeping force - in search of peaceful solutions to civil wars in Liberia, Sierra Leone, Guinea Bissau and Cote d'Ivoire has yielded a mix of successes and failures. In this book, the authors take a candid look at the role that ECOWAS has played and show how the sub-regional organisation has stabilised and created new conditions conducive to nation building in a number of cases. Conversely, the book shows that ECOWAS has aggravated, if not created, new tensions in yet other cases. The comparative advantage that ECOWAS has derived from these experiences is reflected in the various mechanisms, protocols and conventions that are now in place to ensure a more comprehensive conflict prevention framework. This book provides a nuanced analysis of the above issues and other dynamics of conflicts in the region. It also interrogates the roles played by ECOWAS and various other actors in the context of the complex interplay between natural resource governance, corruption, demography and the youth bulge, gender and the conflicting interests of national, regional and international players.

A Sketch Grammar of Pondi Springer Nature

This book includes high-quality research papers presented at the Fourth International Conference on Innovative Computing and Communication (ICICC 2021), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on February 20–21, 2021. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

Modeling, Design and Simulation of Systems CRC Press

Created by the experienced author team of Frank Fabozzi, Henry Davis, and Moorad Choudhry, *Introduction to Structured Finance* examines the essential elements of this discipline. It is a convenient reference guide—which covers all the important transaction types in one place—and an excellent opportunity to enhance your understanding of finance.

Complex Systems and Population Health Springer Nature

This book constitutes the thoroughly refereed proceedings of the First International Conference on Simulation of Urban Mobility, SUMO 2013, held in Berlin, Germany, in May 2013. The 12 revised full papers presented in this book were carefully selected and reviewed from 22 submissions. The papers are organized in two topical sections: models and technical innovations and applications and

surveys.

AsiaSim 2013 Springer Science & Business Media

This book provides a single-source reference to routing algorithms for Networks-on-Chip (NoCs), as well as in-depth discussions of advanced solutions applied to current and next generation, many-core NoC-based Systems-on-Chip (SoCs). After a basic introduction to the NoC design paradigm and architectures, routing algorithms for NoC architectures are presented and discussed at all abstraction levels, from the algorithmic level to actual implementation. Coverage emphasizes the role played by the routing algorithm and is organized around key problems affecting current and next generation, many-core SoCs. A selection of routing algorithms is included, specifically designed to address key issues faced by designers in the ultra-deep sub-micron (UDSM) era, including performance improvement, power, energy, and thermal issues, fault tolerance and reliability.

Routing Algorithms in Networks-on-Chip CRC Press

Information and communication have always opened opportunities for the poor to earn income, reduce isolation, and respond resiliently to emergencies. With mobile phone use exploding across the developing world, even marginalized communities are now benefiting from modern communication tools. This book explores the impacts of this unprecedented technological change. It looks at how the poor use information and communication technologies (ICTs). How they benefit from mobile devices, computers, and the Internet, and what insights can research provide to promote affordable access to ICTs, so that communities across the developing world can take advantage of the opportunities they offer.

Introduction to Structured Finance Springer

AsiaSim 2013Springer

Security Informatics Oxford University Press

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Universal vehicular communication promises many improvements in terms of accident avoidance and mitigation, better utilization of roads and resources such as time and fuel, and new opportunities for infotainment applications. However, before widespread acceptance, vehicular communication must meet challenges comparable to the trouble and disbelief that accompanied the introduction of traffic lights back then. The first traffic light was installed in 1868 in London to signal railway, but only later, in 1912, was invented the first red-green electric traffic light. And roughly 50 years after the first traffic light, in 1920, the first four-way traffic signal comparable to our today's traffic lights was introduced. The introduction of traffic signals was necessary after automobiles soon became prevalent once the first car in history, actually a wooden motorcycle, was constructed in 1885. Soon, the scene became complicated, requiring the introduction of the "right-of-way" philosophy and later on the very first traffic light. In the same way the traffic light was a necessary mean to regulate the beginning of the automotive life and to protect drivers, passengers, as well as pedestrians and other inhabitants of the road infrastructure, vehicular communication is necessary to accommodate the further growth of traffic volume and to significantly reduce the number of accidents.

2016 IEEE International Conference on Information and Automation (ICIA) Springer

This four-volume set (CCIS 643, 644, 645, 646) constitutes the refereed proceedings of the 16th Asia Simulation Conference and the First Autumn Simulation Multi-Conference, AsiaSim / SCS AutumnSim 2016, held in Beijing, China, in October 2016. The 265 revised full papers presented were carefully reviewed and selected from 651 submissions. The papers in this first volume of the set are organized in topical sections on modeling and simulation theory and methodology; model engineering for system of systems; high performance computing and simulation; modeling and simulation for smart city.