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WASHINGTON MIDDLETON

Emerging Technology in Modelling and Graphics Springer Nature

This book introduces research presented at the International Conference on Distributed Computing and Optimization Techniques (ICDCOT-2021), a two-day conference, where researchers, engineers, and academicians from all over the world came together to share their experiences and findings on all aspects of distributed computing and its applications in diverse areas. The book includes papers on distributed computing, intelligent system, optimization method, mathematical modeling, fuzzy logic, neural networks, grid computing, load balancing, communication. It will be a valuable resource for students, academics, and practitioners in the industry working on distributed computing.

Intelligent Cyber-Physical Systems for Autonomous Transportation Springer Nature

This book consists of sixty-seven selected papers presented at the 2015 International Conference on Software Engineering and Information Technology (SEIT2015), which was held in Guilin, Guangxi, China during June 26-28, 2015. The SEIT2015 has been an important event and has attracted many scientists, engineers and researchers from academia, government laboratories and industry internationally. The papers in this book were selected after rigorous review. SEIT2015 focuses on six main areas, namely, Information Technology, Computer Intelligence and Computer Applications, Algorithm and Simulation, Signal and Image Processing, Electrical Engineering and Software Engineering. SEIT2015 aims to provide a platform for the global researchers and practitioners from both academia as well as industry to meet and share cutting-edge development in the field. This conference has been a valuable opportunity for researchers to share their knowledge and results in theory, methodology and applications of Software Engineering and Information Technology.

Software Engineering and Information Technology - Proceedings of the 2015 International Conference (seit2015) S. Chand Publishing

These are the fully refereed proceedings of the International Conference on Materials Science and Information Technology (MSIT 2011), held during the 16-18 September 2011 in Singapore. The main goal of the event was to provide an international scientific forum for the exchange of new ideas in a number of fields by permitting in-depth interaction via discussions with peers from around the world. Core areas of materials science and information technology, plus multi-disciplinary and interdisciplinary aspects are covered. Volume is indexed by Thomson Reuters CPCI-S (WoS).

Foundations and Frontiers in Computer, Communication and Electrical Engineering Springer Nature

The increasing complexity of our world demands new perspectives on the role of technology in decision making. Human decision making has its limitations in terms of information-processing capacity. We need new technology to cope with the increasingly complex and information-rich nature of our modern society. This is particularly true for critical environments such as crisis management and traffic management, where humans need to engage in close collaborations with artificial systems to observe and understand the situation and respond in a sensible way. We believe that close collaborations between humans and artificial systems will become essential and that the importance of research into Interactive Collaborative Information Systems (ICIS) is self-evident. Developments in information and communication technology have radically changed our working environments. The vast amount of information available nowadays and the wirelessly networked nature of our modern society open up new opportunities to handle difficult decision-making situations such as computer-supported situation assessment and distributed decision making. To make good use of these new possibilities, we need to update our traditional views on the role and capabilities of information systems. The aim of the Interactive Collaborative Information Systems project is to develop techniques that support humans in complex information environments and that facilitate distributed decision-making capabilities. ICIS emphasizes the importance of building actor-agent communities: close collaborations between human and artificial actors that highlight their complementary capabilities, and in which task distribution is flexible and adaptive.

Computer Networks and Information Technologies Springer Nature

Embedded Software Development With C offers both an effectual reference for professionals and researchers, and a valuable learning tool for students by laying the groundwork for a solid foundation in the hardware and software aspects of embedded systems development. Key features include a resource for the fundamentals of embedded systems design and development with an emphasis on software, an exploration of the 8051 microcontroller as it pertains to embedded systems, comprehensive tutorial materials for instructors to provide students with labs of varying lengths and levels of difficulty, and supporting website including all sample codes, software tools and links to additional online references.

Applied Video Processing in Surveillance and Monitoring Systems IGI Global

This book gathers high-quality research papers presented at the Global AI Congress 2019, which was organized by the Institute of Engineering and Management, Kolkata, India, on 12-14 September 2019. Sharing contributions prepared by researchers, practitioners, developers and experts in the areas of artificial intelligence, the book covers the areas of AI for E-commerce and web applications, AI and sensors, augmented reality, big data, brain computing interfaces, computer vision, cognitive radio networks, data mining, deep learning, expert systems, fuzzy sets and systems, image processing, knowledge representation, nature-inspired computing, quantum machine learning, reasoning, robotics and autonomous systems, robotics and the IoT, social network analysis, speech processing, video processing, and virtual reality.

Distributed Computing and Artificial Intelligence, Volume 2: Special Sessions 18th International Conference Transportation Research Board

This book constitutes the refereed proceedings of the Second International Conference on Advances in Communication, Network, and Computing, CNC 2011, held in Bangalore, India, in March 2011. The 41 revised full papers, presented together with 50 short papers and 39 poster papers, were carefully reviewed and selected for inclusion in the book. The papers feature current research in the field of Information Technology, Networks, Computational Engineering, Computer and Telecommunication Technology, ranging from theoretical and methodological issues to advanced applications.

Intelligent Road Transport Systems Springer Nature

This handbook, which was developed in recognition of the need for the compilation and dissemination of information on advanced traffic control systems, presents the basic principles for the planning, design, and implementation of such systems for urban streets and freeways. The presentation concept and organization of this handbook is developed from the viewpoint of systems engineering. Traffic control studies are described, and traffic control and surveillance concepts are reviewed. Hardware components are outlined, and computer concepts, and communication concepts are stated. Local and central controllers are described, as well as display, television and driver information systems. Available systems technology and candidate system definition, evaluation and implementation are also covered. The management of traffic control systems is discussed.

Traffic Signal Timing Manual Walter de Gruyter GmbH & Co KG

Quickly Engages in Applying Algorithmic Techniques to Solve Practical Signal Processing Problems With its active, hands-on learning approach, this text enables readers to master the underlying principles of digital signal processing and its many applications in industries such as digital television, mobile and broadband communications, and medical/scientific devices. Carefully developed MATLAB® examples throughout the text illustrate the mathematical concepts and use of digital signal processing algorithms. Readers will develop a deeper understanding of how to apply the algorithms by manipulating the codes in the examples to see their effect. Moreover, plenty of exercises help to put knowledge into practice solving real-world signal processing challenges. Following an introductory chapter, the text explores: Sampled signals and digital processing Random signals Representing signals and systems Temporal and spatial signal processing Frequency analysis of signals Discrete-time filters and recursive filters Each chapter begins with chapter objectives and an introduction. A summary at the end of each chapter ensures that one has mastered all the key concepts and techniques before progressing in the text. Lastly, appendices listing selected web resources, research papers, and related textbooks enable the investigation of individual topics in greater depth. Upon completion of this text, readers will understand how to apply key algorithmic techniques to address practical signal processing problems as well as develop their own signal processing algorithms. Moreover, the text provides a solid foundation for evaluating and applying new digital processing signal techniques as they are developed.

AERA. IGI Global

Development and use of innovative technologies in the fields of power, electronics, computing, robotics, communications, control systems, engineering in biology and medicine, computational intelligence and electron devices

Interactive Collaborative Information Systems Springer Nature

This book gathers papers addressing state-of-the-art research in all areas of information and communication technologies and their applications in intelligent computing, cloud storage, data mining and software analysis. It presents the outcomes of the Sixth International Conference on Information and Communication Technology for Intelligent Systems (ICTIS 2022), held in Ahmedabad, India. The book is divided into two volumes. It discusses the fundamentals of various data analysis techniques and algorithms, making it a valuable resource for researchers and practitioners alike.

Materials Science and Information Technology CRC Press

This book gathers high-quality papers presented at the Third International Conference on Smart Computing and Informatics (SCI 2018-19), which was organized by the School of Computer Engineering and School of Computer Application, Kalinga Institute of Industrial Technology, Bhubaneswar, India, on 21-22 December, 2018. It includes advanced and multi-disciplinary research on the design of smart computing and informatics. Thematically, the book broadly focuses on several innovation paradigms in system knowledge, intelligence and sustainability that can help to provide realistic solutions to various problems confronting society, the environment, and industry. The respective papers offer valuable insights into the how emerging computational and knowledge transfer approaches can be used to deliver optimal solutions in science, technology and healthcare.

Embedded Software Development with C Springer Science & Business Media

This book provides comprehensive discussion on key topics related to the usage and deployment of AI in urban transportation systems including drones. The book presents intelligent solutions to overcome the challenges of static approaches in the transportation sector to make them intelligent, adaptive, agile, and flexible. The book showcases different AI-deployment models, algorithms, and implementations related to intelligent cyber physical systems (CPS) along with their pros and cons. Even more, this book provides deep insights into the CPS specifically about the layered architecture and different planes, interfaces, and programmable network operations. The deployment models for AI-based CPS are also included with an aim towards the design of interoperable and intelligent CPS architectures by researchers in future. The authors present hands on practical implementations, deployment scenarios, and use cases related to different transportation scenarios. In the end, the design and research challenges, open issues, and future research directions are provided.

Computer Networks and Information Technologies CreateSpace

This book reports on innovative research and developments in the broad field of transportation. It covers solutions relating to intelligent vehicles and

infrastructure, energy and combustion management, vehicle dynamics and engineering, as well as research on railway transport, aerospace technologies, logistics and security. Contributions are based on peer-reviewed papers presented at the 13th international scientific conference "Transbaltica: Transportation Science and Technology", held on September 15-16, 2022, at Vilnius Gediminas Technical University, in Vilnius, Lithuania. All in all, this book offers extensive information on modern transport systems, with a good balance of theory and practice.

Augmented and Virtual Reality in Industry 5.0 Springer

This book constitutes the refereed proceedings of the Second International Conference on Advances in Communication, Network, and Computing, CNC 2011, held in Bangalore, India, in March 2011. The 41 revised full papers, presented together with 50 short papers and 39 poster papers, were carefully reviewed and selected for inclusion in the book. The papers feature current research in the field of Information Technology, Networks, Computational Engineering, Computer and Telecommunication Technology, ranging from theoretical and methodological issues to advanced applications.

Smart Intelligent Computing and Applications World Scientific

This book presents the outcomes from the 2nd International Conference on Marine and Advanced Technologies 2021 (Icmat2021) which was organized by the Research and Innovation section, University Kuala Lumpur - Malaysian Institute of Marine Engineering Technology. The theme "Propelling to the Innovative Idea" highlights prominence of recent developments in marine and advanced technologies in the field of marine application, maritime operation, energy and reliability, advanced materials and applied science. This online conference provided a platform for presentations and discussions at the local and international level between educationists, researchers, students, and industrialists. Furthermore, it created opportunities to establish networks and meet experts in addition to exchange of up-to-date knowledge in the field. This book is the up-to-date reference, especially to those who want to learn and explore more about the latest developments and technologies of maritime industries.

IOT with Smart Systems Springer Science & Business Media

As population growth accelerates, researchers and professionals face challenges as they attempt to plan for the future. Urban planning is a significant component in addressing the key concerns as the world population moves towards the city and leaves the rural environment behind, yet there are many factors to consider for a well rounded community. The Handbook of Research on Social, Economic, and Environmental Sustainability in the Development of Smart Cities brings together the necessary research and interdisciplinary discussion to address dilemmas created by population

growth and the expansion of urban environments. This publication is an essential reference source for researchers, academicians, investors, and practitioners interested in the urban planning and technological advancements necessary for the creation of smart cities.

Intersections Control and Safety Springer Nature

This book reports on original research and practical findings fostering sustainable and smart urban mobility transformation. Gathering contributions presented at the 6th Conference on Sustainable Urban Mobility, held from August 31 to September 2, 2022, on Skiathos Island, Greece, it covers topics relating to electric and clean energy, intelligent technologies and automation, green travel modes, and transport safety. It highlights solutions for inclusive transportation, sustainable and resilient supply chains, and describes novel strategies for urban planning and innovative transport infrastructure. This book offers extensive information to academicians, researchers, practitioners and decision makers working on effective strategies to transform urban mobility in a sustainable and equitable way.

Index of Patents Issued from the United States Patent Office WIT Press

Despite traffic circles, four-way stop signs, lights regulated by timers or sensors, and other methods, the management of urban intersections remains problematic. Consider that transportation systems have all the features of so-called complex systems: the great number of state and control variables, the presence of uncertainty and indeterminism, th

Proceedings of the Global AI Congress 2019 Springer Nature

Networks of today are going through a rapid evolution and there are many emerging areas of information networking and their applications. Heterogeneous networking supported by recent technological advances in low power wireless communications along with silicon integration of various functionalities such as sensing, communications, intelligence and actuations are emerging as a critically important disruptive computer class based on a new platform, networking structure and interface that enable novel, low cost and high volume applications. Several of such applications have been difficult to realize because of many interconnections problems. To fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks. This volume covers the theory, design and applications of computer networks, distributed computing and information systems. The aim of the volume "Advanced Information Networking and Applications" is to provide latest research findings, innovative research results, methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications.