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 Energy-Efficient Wireless Sensor Networks
 Information and Communication Technology for Competitive Strategies (ICTCS 2020)
 Proceedings of the 2nd International Conference on Computational and Bio Engineering
 Advances in Hybrid Information Technology

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Fundamentals of Wireless Sensor Networks BoD – Books on Demand

Infrastructure for Homeland Security Environments Wireless Sensor Networks helps readers discover the emerging field of low-cost standards-based sensors that promise a high order of spatial and temporal resolution and accuracy in an ever-increasing universe of applications. It shares the latest advances in science and engineering paving the way towards a large plethora of new applications in such areas as infrastructure protection and security, healthcare, energy, food safety, RFID, ZigBee, and processing. Unlike other books on wireless sensor networks that focus on limited topics in the field, this book is a broad introduction that covers all the major technology, standards, and application topics. It contains everything readers need to know to enter this burgeoning field, including current applications and promising research and development; communication and networking protocols; middleware architecture for wireless sensor networks; and security and management. The straightforward and engaging writing style of this book makes even complex concepts and processes easy to follow and understand. In addition, it offers several features that help readers grasp the material and then apply their knowledge in designing their own wireless sensor network systems: * Examples illustrate how concepts are applied to the development and application of * wireless sensor networks * Detailed case studies set forth all the steps of design and implementation needed to solve real-world problems * Chapter conclusions that serve as an excellent review by stressing the chapter's key concepts * References in each chapter guide readers to in-depth discussions of individual topics This book is ideal for networking designers and engineers who want to fully exploit this new technology and for government employees who are concerned about homeland security. With its examples, it is appropriate for use as a coursebook for upper-level undergraduates and graduate students.

Wireless Sensor Systems for Extreme Environments Wiley-Interscience

Bulletin of Electrical Engineering and Informatics (Buletin Teknik Elektro dan Informatika) ISSN: 2089-3191, e-ISSN: 2302-9285 is open to submission from scholars and experts in the wide areas of electrical, electronics, instrumentation, control, telecommunication and computer engineering from the global world. The journal publishes original papers in the field of electrical, electronics, instrumentation & control, telecommunication, computer and informatics engineering. Vol 3, No 2 June 2014 Table of Contents Predictions on the Development Dimensions of Provincial Tourism Discipline Based on the Artificial Neural Network BP Model PDF Yang Yang, Jun Hu, Mu Zhang 69-76 Study on the Rough-set-based Clustering Algorithm for Sensor Networks PDF Fengmei Liang, Liyuan Zhang, Peng Sun 77-90 Varying Vector Pulse Width Modulation for Three Phase Inverter PDF Raju J, Kowsalya M 91-100 Optimal Determination of Size and Site of DGs in Mesh System Using PSO PDF Mohammad Salehi Male, Adel Akbari Majd, Ramtin Rasouli Nezhad 101-108 Voltage Sag Mitigation and Load Reactive Power Compensation by UPQC PDF P. Ajitha, D. Jananisri 109-112 A Power Quality Improvement for Microgrid Inverter Operated In Grid Connected and Grid Disconnected Modes PDF M. Tamil Selvi, D.G unapriya 113-118 Harmonic Reduction in Variable Frequency Drives Using Active Power Filter PDF M. Tamilvani, K. Nithya, M. Srinivasan, S.U Prabha 119-126 Sampled Reference Frame Algorithm Based on Space Vector Pulse Width Modulation for Five Level Cascaded H-Bridge Inverter PDF Gomathi C, Navya Nagath, Veerakumar S 127-140 Subthreshold Dual Mode Logic PDF J.Nageswara Reddy, T. Sathyanarayana, M.A. Khadar Baba 141-148

Next-Generation Networks Springer Science & Business Media

This book comprises select proceedings of the 2015 annual conference of the Computer Society of India. The books focuses on next generation networks (NGN). An NGN is a packet-based network which can provide services including telecommunication services. NGNs make use of multiple

broadband, quality-of-service-enabled transport technologies in which service-related functions are independent from underlying transport-related technologies. This volume includes contributions from experts on various aspects of NGNs. The papers included cover theory, methodology and applications of ad-hoc networks, sensor networks, and the internet. The contents also delve into how the new enterprise IT landscape of cloud services, mobility, social media usage and big data analytics creates different types of network traffic to the traditional mix of in-house client-server enterprise workloads. The contents of this book will be useful to researchers and professionals alike.

Intelligent Computing 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.

Recent Advances in Learning Automata Springer

A crucial reference tool for the increasing number of scientists who depend upon sensor networks in a widening variety of ways. Coverage includes network design and modeling, network management, data management, security and applications. The topic covered in each chapter receives expository as well as scholarly treatment, covering its history, reviewing state-of-the-art thinking relative to the topic, and discussing currently unsolved problems of special interest.

Intrusion Detection and Prevention for Mobile Ecosystems Springer

This volume, in conjunction with the two volumes CICS 0002 and LNAI 4682, constitutes the refereed proceedings of the Third International Conference on Intelligent Computing held in Qingdao, China, in August 2007. The 139 full papers published here were carefully reviewed and selected from among 2,875 submissions. Collectively, these papers represent some of the most important findings and insights into the field of intelligent computing.

Innovative Data Communication Technologies and Application Springer Nature

This book constitutes the refereed proceedings of the Third International Conference on Mobile Ad-hoc and Sensor Networks, MSN 2007, held in Beijing, China, in December 2007. The papers address all current issues in mobile ad hoc and sensor networks and are organized in topical sections on routing, network protocols, energy efficiency, data processing, self-organization and synchronization, deployment and application, as well as security.

Soft Computing in Wireless Sensor Networks Springer Science & Business Media

This book is a collection of best selected papers presented at the International Conference on Inventive Computation and Information Technologies (ICICIT 2020), organized during 24-25 September 2020. The book includes papers in the research area of information sciences and communication engineering. The book presents novel and innovative research results in theory, methodology and applications of communication engineering and information technologies.

Wireless Sensor Networks and Applications Springer Nature

This book features selected papers presented at the Fifth International Conference on Nanoelectronics, Circuits and Communication Systems (NCCS 2019). It covers a range of topics, including nanoelectronic devices, microelectronics devices, material science, machine learning, Internet of things, cloud computing, computing systems, wireless communication systems, advances in communication 5G and beyond. Further, it discusses VLSI circuits and systems, MEMS, IC design and testing, electronic system design and manufacturing, speech signal processing, digital signal processing, FPGA-based wireless communication systems and FPGA-based system design, Industry 4.0, e-farming, semiconductor memories, and IC fault detection and correction.

Ad-hoc, Mobile, and Wireless Networks Springer Science & Business Media

This book constitutes the refereed proceedings of the 5th International Conference on Future Data and Security Engineering, FDSE 2018, held in Ho Chi Minh City, Vietnam, in November 2018. The 28 revised full papers and 7 short papers presented together with two papers of keynote speeches were carefully reviewed and selected from 122 submissions. The selected papers are organized into the following topical headings: security and privacy engineering; authentication and access control; big data analytics and applications; advanced studies in machine learning; deep learning and applications; data analytics and recommendation systems; Internet of Things and applications; smart city: data analytics and security; and emerging data management systems and applications.

Nanoelectronics, Circuits and Communication Systems Springer Science & Business Media

This book explores various challenging problems and applications areas of wireless sensor networks (WSNs), and identifies the current issues and future research challenges. Discussing the latest developments and advances, it covers all aspects of in WSNs, from architecture to protocols design, and from algorithm development to synchronization issues. As such the book is an essential reference resource for undergraduate and postgraduate students as well as scholars and academics working in the field.

Introduction to Network Simulator NS2 Springer

This book gathers selected high-quality research papers presented at International Conference on Advanced Computing and Intelligent Technologies (ICACIT 2021) held at NCR New Delhi, India, during March 20–21, 2021, jointly organized by Galgotias University, India, and Department of Information Engineering and Mathematics Università Di Siena, Italy. It discusses emerging topics pertaining to advanced computing, intelligent technologies, and networks including AI and machine learning, data mining, big data analytics, high-performance computing network performance analysis, Internet of things networks, wireless sensor networks, and others. The book offers a valuable asset for researchers from both academia and industries involved in advanced studies.

Intelligent Distributed Computing V Springer

In this book, the authors describe the fundamental concepts and practical aspects of wireless sensor networks. The book provides a comprehensive view to this rapidly evolving field, including its many novel applications, ranging from protecting civil infrastructure to pervasive health monitoring. Using detailed examples and illustrations, this book provides an inside track on the current state of the technology. The book is divided into three parts. In Part I, several node architectures, applications and operating systems are discussed. In Part II, the basic architectural frameworks, including the key building blocks required for constructing large-scale, energy-efficient sensor networks are presented. In Part III, the challenges and approaches pertaining to local and global management strategies are presented – this includes topics on power management, sensor node localization, time synchronization, and security. At the end of each chapter, the authors provide practical exercises to help students strengthen their grip on the subject. There are more than 200 exercises altogether. Key Features: Offers a comprehensive introduction to the theoretical and practical concepts pertaining to wireless sensor networks Explains the constraints and challenges of wireless sensor network design; and discusses the most promising solutions Provides an in-depth treatment of the most critical technologies for sensor network communications, power management, security, and programming Reviews the latest research results in sensor network design, and demonstrates how the individual components fit together to build complex sensing systems for a variety of application scenarios Includes an accompanying website containing solutions to exercises (http://www.wiley.com/go/dargie_fundamentals) This book serves as an introductory text to the field of wireless sensor networks at both graduate and advanced undergraduate level, but it will also appeal to researchers and practitioners wishing to learn about sensor network technologies and their application areas, including environmental monitoring, protection of civil infrastructure, health care, precision agriculture, traffic control, and homeland security.

Mobile Ad-hoc and Sensor Networks Springer
Complete with online files and updates, this important new volume covers many of the areas in which hybrid information technology is advancing. The book is the thoroughly refereed post-proceedings of the First International Conference on Hybrid Information Technology, held in Korea in 2006. More than 60 revised papers were carefully selected during a second round of reviewing from 235 reports given at the conference, and are presented in extended version in the book.

Parallel and Distributed Processing and Applications CRC Press

Engineers have long required a comprehensive yet concise resource to turn to for reliable, up-to-date information on the continually evolving field of telecommunications. In five easily searched volumes, the Wiley Encyclopedia of Telecommunications provides a broad, clear overview of both the fundamentals of and recent advances in telecommunications. This essential reference—the only one dedicated to telecommunications for electrical engineers—is available in print and online formats. Topics Include: Optical communications Modulation and demodulation Coding and decoding

Communication networks Antennas John G. Proakis is the Series Editor for the Wiley Series in Telecommunications and Signal Processing. In preparing this Encyclopedia, Dr. Proakis been assisted by an editorial board of five leading telecommunications engineers from academia and industry to bring you: Approximately 300 articles on various topics in telecommunications Articles are written by experts in their fields A broad, clear overview of both the fundamentals and recent advances in telecommunications Cutting edge topics covering the entire field of telecommunications and signal processing For more information regarding the online edition of this major reference work, please visit: www.mrw.interscience.wiley.com/eot

International Conference on Innovative Computing and Communications Springer Nature

The volume deals with sustainability transitions which are transformations of major socio-technical systems of provision and use in areas such as energy, water, mobility, and food, towards more sustainable ways of production and consumption. The book provides insights of World Conference on Smart Trends in Systems, Security and Sustainability (WS4 2017) which is divided into different sections such as Smart IT Infrastructure for Sustainable Society; Smart Management prospective for Sustainable Society; Smart Secure Systems for Next Generation Technologies; Smart Trends for Computational Graphics and Image Modelling; and Smart Trends for Biomedical and Health Informatics. The book volume contains 31 high-quality papers presented at WS4 2017.

Hierarchical Topology Control for Wireless Networks Springer Science & Business Media

This book contains the best selected research papers presented at ICTCS 2020: Fifth International Conference on Information and Communication Technology for Competitive Strategies. The conference was held at Jaipur, Rajasthan, India during 11–12 December 2020. The book covers state-of-the-art as well as emerging topics pertaining to ICT and effective strategies for its implementation for engineering and managerial applications. This book contains papers mainly focused on ICT for computation, algorithms and data analytics and IT security.

Sustainable Wireless Sensor Networks Springer

Introduction to Network Simulator NS2 is a primer providing materials for NS2 beginners, whether students, professors, or researchers for understanding the architecture of Network Simulator 2 (NS2) and for incorporating simulation modules into NS2. The authors discuss the simulation architecture and the key components of NS2 including simulation-related objects, network objects, packet-related objects, and helper objects. The NS2 modules included within are nodes, links, SimpleLink objects, packets, agents, and applications. Further, the book covers three helper modules: timers, random number generators, and error models. Also included are chapters on summary of debugging, variable and packet tracing, result compilation, and examples for extending NS2. Two appendices provide the details of scripting language Tcl, OTcl and AWK, as well object oriented programming used extensively in NS2.

Handbook of Wireless Sensor Networks: Issues and Challenges in Current Scenario's

Springer Science & Business Media

This book constitutes the refereed proceedings of the Third International Conference on Ad-Hoc Networks and Wireless, ADHOC-NOW 2004, held in Vancouver, Canada in July 2004. The 22 revised full papers and 8 revised short papers presented were carefully reviewed and selected from more than 150 submissions. All current aspects of ad-hoc networking, sensor networks, mobile, wireless, and cooperating communication systems are addressed including, multicast, broadcast, performance, QoS, routing protocols, scalability, security, hybrid networks, self-organization, auto-configuration, energy consumption, peer-to-peer systems, and MAC protocols.

Advanced Computing and Intelligent Technologies Springer Nature

This book, gathering the Proceedings of the 2018 Computing Conference, offers a remarkable collection of chapters covering a wide range of topics in intelligent systems, computing and their real-world applications. The Conference attracted a total of 568 submissions from pioneering researchers, scientists, industrial engineers, and students from all around the world. These submissions underwent a double-blind peer review process. Of those 568 submissions, 192 submissions (including 14 poster papers) were selected for inclusion in these proceedings. Despite computer science's comparatively brief history as a formal academic discipline, it has made a number of fundamental contributions to science and society—in fact, along with electronics, it is a founding science of the current epoch of human history ('the Information Age') and a main driver of the Information Revolution. The goal of this conference is to provide a platform for researchers to present fundamental contributions, and to be a premier venue for academic and industry practitioners to share new ideas and development experiences. This book collects state of the art chapters on all aspects of Computer Science, from classical to intelligent. It covers both the theory and applications of the latest computer technologies and methodologies. Providing the state of the art in intelligent methods and techniques for solving real-world problems, along with a vision of future research, the book will be interesting and valuable for a broad readership.