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Fundamentals of Wireless Sensor Networks

Theory and Practice



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Fundamentals Of Wireless Sensor Networks Theory And Practice

**Haidi Ibrahim, Shahid Iqbal, Soo Siang
Teoh, Mohd Tafir Mustaffa**



Fundamentals Of Wireless Sensor Networks Theory And Practice:

Fundamentals of Wireless Sensor Networks Waltenegus Dargie, Christian Poellabauer, 2010-11-05 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

Wireless Sensor Networks

Siladitya Sen, 2023-11-30 Wireless sensor networks WSNs can be defined as self configured and infrastructure less wireless networks WSNs monitor physical or environmental conditions such as temperature sound vibration pressure motion or pollutants and cooperatively pass their data through the networks to the central location or sink where it can be observed and analysed The characteristics of these devices and the operating principles including those of MEMS micro electromechanics system which are the current trends in sensor devices fabrication have been discussed This book is about sensors and their applications in various fields like automobiles wireless sensor networks humidity sensing devices manufacturing and medical applications Each chapter contains necessary schematic diagrams coupled with three categories of review questions This book provides presentations of various types of sensors along with transducers that are used in today's current industrial scenario It also describes in detail the comprehensive state of present day technologies The students of engineering will find this volume highly useful for their course work along with guidance for final year projects

and seminar work This will also serve as a pointer to choose their future field of innovation and research work Wireless Sensor Networks Damodar Reddy Edla, Mahesh Chowdary Kongara, Amruta Lipare, Venkatanaresbhabu Kuppili, Kannadasan K, 2020-11-23 Wireless Sensor Networks Evolutionary Algorithms for Optimizing Performance provides an integrative overview of bio inspired algorithms and their applications in the area of Wireless Sensor Networks WSN Along with the usage of the WSN the number of risks and challenges occurs while deploying any WSN Therefore to defeat these challenges some of the bio inspired algorithms are applied and discussed in this book Discussion includes a broad integrated perspective on various challenges and issues in WSN and also impact of bio inspired algorithms on the lifetime of the WSN It creates interdisciplinary theory concepts definitions models and findings involved in WSN and Bio inspired algorithms making it an essential guide and reference It includes various WSN examples making the book accessible to a broader interdisciplinary readership The book offers comprehensive coverage of the most essential topics including Evolutionary algorithms Swarm intelligence Hybrid algorithms Energy efficiency in WSN Load balancing of gateways Localization Clustering and routing Designing fitness functions according to the issues in WSN The book explains about practices of shuffled complex evolution algorithm shuffled frog leaping algorithm particle swarm optimization and dolphin swarm optimization to defeat various challenges in WSN The author elucidates how we must transform our thinking illuminating the benefits and opportunities offered by bio inspired approaches to innovation and learning in the area of WSN This book serves as a reference book for scientific investigators who shows an interest in evolutionary computation and swarm intelligence as well as issues and challenges in WSN Wireless Sensor Networks Shafiullah Khan, Al-Sakib Khan Pathan, Nabil Ali Alrajeh, 2016-04-21 Wireless sensor networks WSNs utilize fast cheap and effective applications to imitate the human intelligence capability of sensing on a wider distributed scale But acquiring data from the deployment area of a WSN is not always easy and multiple issues arise including the limited resources of sensor devices run with one time batteries Additi Wireless Sensor Networks S. R. Vijayalakshmi, S. Muruganand, 2018-04-25 Wireless Sensor Networks is an essential guide for anyone interested in wireless communications for sensor networks home networking or device hacking It covers a large number of topics encountered in the architecture application and recent advancements of a wireless sensor network including hardware and software architectures the Internet of Things routing and security MANETs MEMS Zigbee TDMA securing networks for WiFi ubiquitous sensor networks underwater mobile and multimedia wireless networks Features Includes a wide range of applications to industry science transportation civil infrastructure and security Covers the Internet of Things IoT MEMS Zigbee TDMA mobile wireless networks and more Features article on securing networks for WiFi by the United States Department of Homeland Security DHS Cybersecurity Engineering **Wireless Sensor Networks** Ian F. Akyildiz, Mehmet Can Vuran, 2010-06-10 This book presents an in depth study on the recent advances in Wireless Sensor Networks WSNs The authors describe the existing WSN applications and discuss the research efforts being undertaken in this field Theoretical

analysis and factors influencing protocol design are also highlighted. The authors explore state of the art protocols for WSN protocol stack in transport routing data link and physical layers. Moreover the synchronization and localization problems in WSNs are investigated along with existing solutions. Furthermore cross layer solutions are described. Finally developing areas of WSNs including sensor actor networks multimedia sensor networks and WSN applications in underwater and underground environments are explored. The book is written in an accessible textbook style and includes problems and solutions to assist learning. Key Features: The ultimate guide to recent advances and research into WSNs. Discusses the most important problems and issues that arise when programming and designing WSN systems. Shows why the unique features of WSNs self organization cooperation correlation will enable new applications that will provide the end user with intelligence and a better understanding of the environment. Provides an overview of the existing evaluation approaches for WSNs including physical testbeds and software simulation environments. Includes examples and learning exercises with a solutions manual supplemented by an accompanying website containing PPT slides. Wireless Sensor Networks is an essential textbook for advanced students on courses in wireless communications networking and computer science. It will also be of interest to researchers system and chip designers network planners technical managers and other professionals in these fields.

Conference Proceedings of ICDLAIR2019 Meenakshi Tripathi, Sushant Upadhyaya, 2021-02-08. This proceedings book includes the results from the International Conference on Deep Learning Artificial Intelligence and Robotics held in Malaviya National Institute of Technology Jawahar Lal Nehru Marg Malaviya Nagar Jaipur Rajasthan 302017. The scope of this conference includes all subareas of AI with broad coverage of traditional topics like robotics statistical learning and deep learning techniques. However the organizing committee expressly encouraged work on the applications of DL and AI in the important fields of computer electronics electrical mechanical chemical textile engineering health care and agriculture business and social media and other relevant domains. The conference welcomed papers on the following but not limited to research topics: Deep Learning Applications of deep learning in various engineering streams neural information processing systems training schemes GPU computation and paradigms human computer interaction genetic algorithm reinforcement learning natural language processing social computing user customization embedded computation automotive design and bioinformatics Artificial Intelligence Automatic control natural language processing data mining and machine learning tools fuzzy logic heuristic optimization techniques membrane based separation wastewater treatment process control etc and soft computing Robotics Automation and advanced control based applications in engineering neural networks on low powered devices human robot interaction and communication cognitive developmental and evolutionary robotics fault diagnosis virtual reality space and underwater robotics simulation and modelling bio inspired robotics cable robots cognitive robotics collaborative robotics collective and social robots and humanoid robots. It was a collaborative platform for academic experts researchers and corporate professionals for interacting their research in various domain of engineering like robotics data

acquisition human computer interaction genetic algorithm sentiment analysis as well as usage of AI and advanced computation in various industrial challenges based applications such as user customization augmented reality voice assistants reactor design product formulation synthesis embedded system design membrane based separation for protecting environment along with wastewater treatment rheological properties estimation for Newtonian and non Newtonian fluids used in micro processing industries and fault detection

Principles of Wireless Sensor Networks Mohammad S.

Obaidat, Sudip Misra, 2014-12-04 Wireless sensor networks are an emerging technology with a wide range of applications in military and civilian domains The book begins by detailing the basic principles and concepts of wireless sensor networks including information gathering energy management and the structure of sensory nodes It proceeds to examine advanced topics covering localisation topology security and evaluation of wireless sensor networks highlighting international research being carried out in this area Finally it features numerous examples of applications of this technology to a range of domains such as wireless multimedia underwater and underground wireless sensor networks The concise but clear presentation of the important principles techniques and applications of wireless sensor networks makes this guide an excellent introduction for anyone new to the subject as well as an ideal reference for practitioners and researchers

Planar Microwave Sensors

Ferran Martín, Paris Vélez, Jonathan Muñoz-Enano, Lijuan Su, 2022-09-27 Comprehensive resource detailing the latest advances in microwave and wireless sensors implemented in planar technology Planar Microwave Sensors is an authoritative resource on the subject discussing the main relevant sensing strategies working principles and applications on the basis of the authors own experience and background while also highlighting the most relevant contributions to the topic reported by international research groups The authors provide an overview of planar microwave sensors grouped by chapters according to their working principle In each chapter the working principle is explained in detail and the specific sensor design strategies are discussed including validation examples at both simulation and experimental level The most suited applications in each case are also reported The necessary theory and analysis for sensor design are further provided with special emphasis on performance improvement i e sensitivity and resolution optimization dynamic range etc Lastly the work covers a number of applications from material characterization to biosensing including motion control sensors microfluidic sensors industrial sensors and more Sample topics covered in the work include Non resonant and resonant sensors reflective mode and transmission mode sensors single ended and differential sensors and contact and contactless sensors Design guidelines for sensor performance optimization and analytical methods to retrieve the variables of interest from the measured sensor responses Radiofrequency identification RFID sensor types prospective applications and materials technologies towards green sensors implementation Comparisons between different technologies for sensing and the advantages and limitations of microwave sensors particularly planar sensors Engineers and qualified professionals involved in sensor technologies along with undergraduate and graduate students in related programs of study can harness the valuable information inside Planar

Microwave Sensors to gain complete foundational knowledge on the subject and stay up to date on the latest research and developments in the field **A Complete Guide to Wireless Sensor Networks** Ankur Dumka, Sandip K.

Chaurasiya, Arindam Biswas, Hardwari Lal Mandoria, 2019-05-31 This book provides comprehensive coverage of the major aspects in designing implementing and deploying wireless sensor networks by discussing present research on WSNs and their applications in various disciplines It familiarizes readers with the current state of WSNs and how such networks can be improved to achieve effectiveness and efficiency It starts with a detailed introduction of wireless sensor networks and their applications and proceeds with layered architecture of WSNs It also addresses prominent issues such as mobility heterogeneity fault tolerance intermittent connectivity and cross layer optimization along with a number of existing solutions to stimulate future research **Wired/Wireless Internet Communications** Yevgeni Koucheryavy, Lefteris

Mamatas, Ibrahim Matta, Aleksandr Ometov, Panagiotis Papadimitriou, 2017-06-15 This book constitutes the proceedings of the 15th IFIP International Conference on Wired Wireless Internet Communications WWIC 2017 held in St Petersburg Russia in June 2017 The 27 papers presented in this volume were carefully reviewed and selected from 76 submissions They were organized in topical sections named network analysis and dimensioning 5G communications network design and planning network protocols information technology and circuit design **Smart and Innovative Trends in Next Generation**

Computing Technologies Pushpak Bhattacharyya, Hanumat G. Sastry, Venkatadri Marriboyina, Rashmi Sharma, 2018-06-08 The two volume set CCIS 827 and 828 constitutes the thoroughly refereed proceedings of the Third International Conference on Next Generation Computing Technologies NGCT 2017 held in Dehradun India in October 2017 The 135 full papers presented were carefully reviewed and selected from 948 submissions There were organized in topical sections named Smart and Innovative Trends in Communication Protocols and Standards Smart and Innovative Trends in Computational Intelligence and Data Science Smart and Innovative Trends in Image Processing and Machine Vision Smart Innovative Trends in Natural Language Processing for Indian Languages Smart Innovative Trends in Security and Privacy

Applications of Evolutionary Computation Anna I. Esparcia-Alcázar, Antonio M. Mora, 2014-11-28 This book constitutes the thoroughly refereed post conference proceedings of the International Conference on the Applications of Evolutionary Computation EvoApplications 2014 held in Granada Spain in April 2014 colocated with the Evo 2014 events EuroGP EvoCOP and EvoMUSART The 79 revised full papers presented were carefully reviewed and selected from 128 submissions EvoApplications 2014 consisted of the following 13 tracks EvoCOMNET nature inspired techniques for telecommunication networks and other parallel and distributed systems EvoCOMPLEX evolutionary algorithms and complex systems EvoENERGY evolutionary computation in energy applications EvoFIN evolutionary and natural computation in finance and economics EvoGAMES bio inspired algorithms in games EvoIASP evolutionary computation in image analysis signal processing and pattern recognition EvoINDUSTRY nature inspired techniques in industrial settings EvoNUM bio inspired

algorithms for continuous parameter optimization EvoPAR parallel implementation of evolutionary algorithms EvoRISK computational intelligence for risk management security and defence applications EvoROBOT evolutionary computation in robotics EvoSTOC evolutionary algorithms in stochastic and dynamic environments and EvoBio EC and related techniques in bioinformatics and computational biology *Advances in Antenna, Signal Processing, and Microelectronics Engineering* Devendra Kumar Sharma, Rohit Sharma, Bhadra Pokharel, Vinod Kumar, Raghvendra Kumar, 2021-07-05 With the rapid growth of wireless communications this book meets the strong demand for information and new research in the area of antenna signal processing and microelectronics engineering Providing an interdisciplinary platform it brings together leading academicians scientists and researchers to share information on innovations trends and advances as well as the challenges encountered in this field The chapters address the functional framework in the area of antenna signal processing and microelectronics engineering and explore the concepts from the basic to advanced level Key features Addresses the functional framework in the area of antenna signal processing and microelectronics engineering Covers the major challenges issues and advances in antennas signal processing and microelectronics engineering Explores optimization techniques for smart antenna and microelectronics for different applications Explores different materials and design techniques in the area of antennas and microelectronics

9th International Conference on Robotic, Vision, Signal Processing and Power Applications Haidi Ibrahim, Shahid Iqbal, Soo Siang Teoh, Mohd Tafir Mustaffa, 2016-09-29 The proceeding is a collection of research papers presented at the 9th International Conference on Robotics Vision Signal Processing Power Applications ROVISIP 2016 by researchers scientists engineers academicians as well as industrial professionals from all around the globe to present their research results and development activities for oral or poster presentations The topics of interest are as follows but are not limited to Robotics Control Mechatronics and Automation Vision Image and Signal Processing Artificial Intelligence and Computer Applications Electronic Design and Applications Telecommunication Systems and Applications Power System and Industrial Applications Engineering Education

Fundamentals of Pervasive Information Management Systems Vijay Kumar, 2013-09-16 A comprehensive new edition on mobile computing covering both mobile and sensor data The new paradigm of pervasive computing was born from the needs of highly mobile workers to access and transfer data while on the go Significant advances in the technology have lent and will continue to lend prevalence to its use especially in m commerce Covering both mobile data and sensor data this comprehensive text offers updated research on sensor technology data stream processing mobile database security and contextual processing Packed with cases studies exercises and examples Fundamentals of Pervasive Information Management Systems covers essential aspects of wireless communication and provides a thorough discussion about managing information on mobile database systems MDS It addresses the integration of web and workflow with mobile computing and looks at the current state of research Fundamentals of Pervasive Information Management Systems presents chapters on Mobile Database System Mobile and

Wireless Communication Location and Handoff Management Fundamentals of Database Processing Introduction to Concurrency Control Mechanisms Effect of Mobility on Data Processing Transaction Management in Mobile Database Systems Mobile Database Recovery Wireless Information Dissemination Introduction to Sensor Technology Sensor Technology and Data Streams Management Sensor Network Deployment Case Studies Fundamentals of Pervasive Information Management Systems is an ideal book for researchers teachers and graduate students of mobile computing The book may also be used as a reference text for researchers or managers Intelligent Data Sensing and Processing for Health and Well-being Applications Miguel Antonio Wister Ovando,Pablo Pancardo Garcia,Francisco Diego Acosta Escalante,Jose Adan Hernandez Nolasco,2018-07-26 Intelligent Data Sensing and Processing for Health and Well being Applications uniquely combines full exploration of the latest technologies for sensor collected intelligence with detailed coverage of real case applications for healthcare and well being at home and in the workplace Forward thinking in its approach the book presents concepts and technologies needed for the implementation of today s mobile pervasive and ubiquitous systems and for tomorrow s IoT and cyber physical systems Users will find a detailed overview of the fundamental concepts of gathering processing and analyzing data from devices disseminated in the environment as well as the latest proposals for collecting processing and abstraction of data sets In addition the book addresses algorithms methods and technologies for diagnosis and informed decision making for healthcare and well being Topics include emotional interface with ambient intelligence and emerging applications in detection and diagnosis of neurological diseases Finally the book explores the trends and challenges in an array of areas such as applications for intelligent monitoring in the workplace for well being acquiring data traffic in cities to improve the assistance of first aiders and applications for supporting the elderly at home Examines the latest applications and future directions for mobile data sensing in an array of health and well being scenarios Combines leading computing paradigms and technologies development applications empirical studies and future trends in the multidisciplinary field of smart sensors smart sensor networks data analysis and machine intelligence methods Features an analysis of security privacy and ethical issues in smart sensor health and well being applications Equips readers interested in interdisciplinary projects in ubiquitous computing or pervasive computing and ambient intelligence with the latest trends and developments **Incorporating the Internet of Things in Healthcare Applications and Wearable Devices** Pankajavalli, P. B.,Karthick, G. S.,2019-10-11 The internet of things IoT has had a major impact on academic and industrial fields Applying these technologies to healthcare systems reduces medical costs while enriching the patient centric approach to medicine allowing for better overall healthcare proficiency However usage of IoT in healthcare is still suffering from significant challenges with respect to the cost and accuracy of medical sensors non standard IoT system architectures assorted wearable devices the huge volume of generated data and interoperability issues Incorporating the Internet of Things in Healthcare Applications and Wearable Devices is an essential publication that examines existing challenges and provides

solutions for building smart healthcare systems with the latest IoT enabled technology and addresses how IoT improves the proficiency of healthcare with respect to wireless sensor networks While highlighting topics including mobility management sensor integration and data analytics this book is ideally designed for computer scientists bioinformatics analysts doctors nurses hospital executives medical students IT specialists software developers computer engineers industry professionals academicians researchers and students seeking current research on how these emerging wireless technologies improve efficiency within the healthcare domain **Ad-Hoc, Mobile, and Wireless Networks** Maria Rita Palattella,Stefano Scanzio,Sinem Coleri Ergen,2019-09-25 This book constitutes the refereed proceedings of the 18th International Conference on Ad Hoc Mobile and Wireless Networks ADHOC NOW 2019 held in Luxembourg in October 2019 The 37 full and 10 short papers presented were carefully reviewed and selected from 64 submissions The papers provide an in depth and stimulating view on the new frontiers in the field of mobile ad hoc and wireless computing They are organized in the following topical sections IoT for emergency and disaster management scheduling and synchronization in WSN routing strategies for WSN LPWANs and their integration with satellite performance improvement of wireless and sensor networks optimization schemes for increasing sensors lifetime vehicular and UAV networks body area networks IoT security and standardization

Distributed Denial of Service Attacks Rajeev Singh,Mangey Ram,2021-07-19 This book presents new concepts against Distributed Denial of Service DDoS attacks It follows a systematic approach providing cryptographic and mathematical solutions that include aspects of encryption decryption hashing techniques digital signatures authentication probability statistical improvements to machine learning and soft computing as well as latest trends like blockchains to mitigate DDoS attacks

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