



WIRELESS SENSOR NETWORKS

Technology, Protocols, and Applications



KAZEM SOHRABY • DANIEL MINOLI • TAIEB ZNATI

Wireless Sensor Networks Technology Protocols And Applications

Kieran Delaney



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Wireless Sensor Networks: Technology, Protocols, And Applications Daniel Minoli Kazem Sohraby, Taieb Znati, 2010-07-21 This book is intended to be a high quality textbook that provides a carefully designed exposition of the important aspects of Wireless Sensor Networks The book provides a thorough coverage of wireless sensor networks including applications communication and networking protocols middleware security and management The book is targeted at networking professionals managers and practitioners and government agencies who want to understand the benefits of this new technology and plan for its use and deployment Chapter 1 Introduction and Overview of Wireless Sensor Networks Chapter 2 Commercial and Scientific Applications of Wireless Sensor Networks Chapter 3 Basic Wireless Sensor Technology Chapter 4 Wireless Sensors Networks Protocols Physical Layer Chapter 5 Medium Access Control Protocols for Wireless Sensor Networks Chapter 6 Sensors Network Protocols Routing Protocols Chapter 7 Transport Control Protocols for Wireless Sensors Networks Chapter 8 Middleware for Sensor Networks Chapter 9 Network Management for Wireless Sensor Networks Chapter 10 Operating Systems for Sensor Networks Chapter 11 Performance and Traffic Management Issues

Wireless Sensor Networks C.S. Raghavendra, Krishna M. Sivalingam, Taieb Znati, 2006-12-15 Wireless Sensor Networks presents a comprehensive and tightly organized compilation of chapters that surveys many of the exciting research developments taking place in this field Chapters are written by several of the leading researchers exclusively for this book Authors address many of the key challenges faced in the design analysis and deployment of wireless sensor networks Included is coverage of low cost sensor devices equipped with wireless interfaces sensor network protocols for large scale sensor networks data storage and compression techniques security architectures and mechanisms and many practical applications that relate to use in environmental military medical industrial and home networks *Wireless Sensor Networks* Mohammad Abdul Matin, 2012-09-06 This book explores both the state of the art and the latest developments in wireless sensor networks technology It describes the fundamental concepts and practical aspects of wireless sensor networks and addresses challenges faced in their design analysis and deployment It is believed that the book will serve as a comprehensive reference for graduate and undergraduate senior students who seek to learn the latest developments in wireless sensor networks

Low-Power Wireless Sensor Networks Jukka Suhonen, Mikko Kohvakka, Ville Kaseva, Timo D. Hämäläinen, Marko Hännikäinen, 2012-01-14 Wireless sensor network WSN is an ad hoc network technology comprising even thousands of autonomic and self organizing nodes that combine environmental sensing data processing and wireless networking The applications for sensor networks range from home and industrial environments to military uses Unlike the traditional computer networks a WSN is application oriented and deployed for a specific task WSNs are data centric which means that messages are not send to individual nodes but to geographical locations or regions based on the data content A WSN node is typically battery powered and characterized by extremely small size and low cost As a result the processing

power memory and energy resources of an individual sensor node are limited However the feasibility of a WSN lies on the collaboration between the nodes A reference WSN node comprises a Micro Controller Unit MCU having few Million Instructions Per Second MIPS processing speed tens of kilobytes program memory few kilobytes data memory In addition the node contains a short range radio and a set of sensors Supply power is typically obtained with small batteries Assuming a target lifetime of one year using AA size batteries the available power budget is around 1 mW This book covers the low power WSNs services ranging from hardware platforms and communication protocols to network deployment and sensor data collection and actuation The implications of resource constraints and expected performance in terms of throughput reliability and latency are explained As a case study this book presents experiments with low energy TUTWSN technology to illustrate the possibilities and limitations of WSN applications

Wireless Sensor Networks and Energy Efficiency: Protocols, Routing and Management Zaman, Noor,Ragab, Khaled,Abdullah, Azween Bin,2012-01-31 This book focuses on wireless sensor networks and their operation covering topics including routing energy efficiency and management

Wireless Sensor Networks Kazem Sohraby,Daniel Minoli,Taieb Znati,2007-03-31 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 Networks Siva Yellampalli,2021-09-15 Wireless sensor networks WSNs consist of tiny sensors capable of sensing computing and communicating Due to advances in semiconductors networking and material science technologies it is now

possible to deploy large scale WSNs The advancement in these technologies has not only decreased the deployment and maintenance costs of networks but has also increased the life of networks and made them more rugged As WSNs become more reliable with lower maintenance costs they are being deployed and used across various sectors for multiple applications This book discusses the applications challenges and design and deployment techniques of WSNs **Wireless Sensor**

Networks Mohammad Abdul Matin,2012-09-06 This book explores both the state of the art and the latest developments in wireless sensor networks technology It describes the fundamental concepts and practical aspects of wireless sensor networks and addresses challenges faced in their design analysis and deployment It is believed that the book will serve as a comprehensive reference for graduate and undergraduate senior students who seek to learn the latest developments in wireless sensor networks **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 **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

Smart Textiles and Their Applications Vladan Koncar,2016-04-22 Smart Textiles and Their Applications outlines the fundamental principles of applied smart textiles also reporting on recent trends and research developments Scientific issues and proposed solutions are presented in a rigorous and constructive way that fully presents the various results prototypes and case studies obtained from academic and industrial laboratories worldwide After an introduction to smart textiles and their applications from the editor Part One reviews smart textiles for medical purposes including their use in health monitoring treatment delivery and assistive technologies Part Two covers smart textiles for transportation and energy with chapters covering smart textiles for the monitoring of structures and processes as well as smart textiles for energy generation The final section considers smart textiles for protection security and communication and includes chapters covering electrochromic textile displays textile antennas and smart materials for personal protective equipment Scientific issues and proposed solutions are presented in a rigorous and constructive way regarding various results prototypes and case studies obtained from academic and industrial laboratories worldwide Useful for researchers and postgraduate students

and also for existing companies and start ups that are developing products involving smart textiles Authored and edited by an international team who are experts in the field ensure comprehensive coverage and global relevance **Wireless Sensor Networks** Shuang-Hua Yang,2013-10-23 Wireless Sensor Networks presents the latest practical solutions to the design issues presented in wireless sensor network based systems Novel features of the text distributed throughout include workable solutions demonstration systems and case studies of the design and application of wireless sensor networks WSNs based on the first hand research and development experience of the author and the chapters on real applications building fire safety protection smart home automation and logistics resource management Case studies and applications illustrate the practical perspectives of sensor node design embedded software design routing algorithms sink node positioning co existence with other wireless systems data fusion security indoor location tracking integrating with radio frequency identification and Internet of things Wireless Sensor Networks brings together multiple strands of research in the design of WSNs mainly from software engineering electronic engineering and wireless communication perspectives into an over arching examination of the subject benefiting students field engineers system developers and IT professionals The contents have been well used as the teaching material of a course taught at postgraduate level in several universities making it suitable as an advanced text book and a reference book for final year undergraduate and postgraduate students

Applications of Computing, Automation and Wireless Systems in Electrical Engineering Sukumar Mishra,Yog Raj Sood,Anuradha Tomar,2019-05-31 This book discusses key concepts challenges and potential solutions in connection with established and emerging topics in advanced computing renewable energy and network communications Gathering edited papers presented at MARC 2018 on July 19 2018 it will help researchers pursue and promote advanced research in the fields of electrical engineering communication computing and manufacturing **Handbook of Research on Advanced Wireless Sensor Network Applications, Protocols, and Architectures** Ray, Niranjana K.,Turuk, Ashok Kumar,2016-08-01 The implementation of wireless sensor networks has wide ranging applications for monitoring various physical and environmental settings However certain limitations with these technologies must be addressed in order to effectively utilize them The Handbook of Research on Advanced Wireless Sensor Network Applications Protocols and Architectures is a pivotal reference source for the latest research on recent innovations and developments in the field of wireless sensors Examining the advantages and challenges presented by the application of these networks in various areas this book is ideally designed for academics researchers students and IT developers Security and Privacy in Cyber-Physical Systems Houbing Song,Glenn A. Fink,Sabina Jeschke,2017-11-13 Written by a team of experts at the forefront of the cyber physical systems CPS revolution this book provides an in depth look at security and privacy two of the most critical challenges facing both the CPS research and development community and ICT professionals It explores in depth the key technical social and legal issues at stake and it provides readers with the information they need to advance research and development in this exciting area Cyber physical

systems CPS are engineered systems that are built from and depend upon the seamless integration of computational algorithms and physical components Advances in CPS will enable capability adaptability scalability resiliency safety security and usability far in excess of what today's simple embedded systems can provide Just as the Internet revolutionized the way we interact with information CPS technology has already begun to transform the way people interact with engineered systems In the years ahead smart CPS will drive innovation and competition across industry sectors from agriculture energy and transportation to architecture healthcare and manufacturing A priceless source of practical information and inspiration Security and Privacy in Cyber Physical Systems Foundations Principles and Applications is certain to have a profound impact on ongoing R D and education at the confluence of security privacy and CPS

Wearable and Autonomous Biomedical Devices and Systems for Smart Environment Aimé Lay-Ekuakille, 2010-10-04 This book is dedicated to wearable and autonomous systems including devices offers to variety of users namely master degree students researchers and practitioners An opportunity of a dedicated and a deep approach in order to improve their knowledge in this specific field The book draws the attention about interesting aspects as for instance advanced wearable sensors for enabling applications solutions for arthritic patients in their limited and conditioned movements wearable gate analysis energy harvesting physiological parameter monitoring communication pathology detection etc

Sensors, Cloud, and Fog Sudip Misra, Subhadeep Sarkar, Subarna Chatterjee, 2019-06-20 This book provides an in depth understanding of Internet of Things IoT technology It highlights several of today's research and technological challenges of translating the concept of the IoT into a practical technologically feasible and business viable solution It introduces two novel technologies sensor cloud and fog computing as the crucial enablers for the sensing and compute backbone of the IoT The book discusses these two key enabling technologies of IoT that include a wide range of practical design issues and the futuristic possibilities and directions involving sensor networks and cloud and fog computing environments towards the realization and support of IoT Classroom presentations and solutions to end of chapter questions are available to instructors who use the book in their classes

Handbook of Wireless Sensor Networks: Issues and Challenges in Current Scenario's Pradeep Kumar Singh, Bharat K. Bhargava, Marcin Paprzycki, Narottam Chand Kaushal, Wei-Chiang Hong, 2020-02-08 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

Resource Allocation and Performance Optimization in Communication Networks and the Internet Liansheng Tan, 2017-08-15 This book provides a comprehensive introduction to the underlying theory design techniques and analytical results of wireless communication networks focusing on the core principles of wireless network design It elaborates the

network utility maximization NUM theory with applications in resource allocation of wireless networks with a central aim of design and the QoS guarantee It presents and discusses state of the art developments in resource allocation and performance optimization in wireless communication networks It provides an overview of the general background including the basic wireless communication networks and the relevant protocols architectures methods and algorithms *Ambient Intelligence with Microsystems* Kieran Delaney, 2008-10-17 Augmented Materials and Smart Objects investigates the issues required to ensure technology platforms capable of being seamlessly integrated into everyday objects particularly the requirements for integrated computation and MEMs sensors System in a package solutions multi chip modules the impact of the trend towards embedded microelectronic electronics sub systems novel assembly techniques for autonomous MEMs sensors as well as practical performance issues that are key to the AmI concept Also discussed are current requirements for realizing applications oriented examples of smart objects e g smart textiles gadgets integration of smart systems for utility and environmental monitoring etc these are based upon heterogeneous systems linking networks of sensors attached to or physically embedded in objects with information management systems enabling collections of smart objects to collaborate to provide proactive services to the user Finally Augmented Materials and Smart Objects describes and discusses a number of vision statements strongly relevant to the future development of distributed embedded sensor and actuator platforms for smart objects and ultimately Ambient Intelligence The framework for this is the concept of Augmented Materials these are materials with fully embedded distributed information systems designed to measure all relevant physical properties and provide a full knowledge representation of the material in effect the material would know itself and its current status

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