



Mohammad S. Obaidat and Sudip Misra

PRINCIPLES OF WIRELESS SENSOR NETWORKS

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Nitaigour P. Mahalik



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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

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

Wireless Sensor Networks Fei Hu, Xiaojun Cao, 2010-05-06 Written by award winning engineers whose research has been sponsored by the U S National Science Foundation NSF IBM and Cisco s University Research Program Wireless Sensor Networks Principles and Practice addresses everything product developers and technicians need to know to navigate the field It provides an all inclusive examina

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technology to a range of domains such as wireless multimedia underwater and underground wireless sensor networks

Intelligent Packaging, 2024-04-14 Developments in Food Quality and Safety Series is the most up to date resource covering trend topics such as Advances in the analysis of toxic compounds and control of food poisoning Food fraud traceability and authenticity Revalorization of agrifood industry Natural antimicrobial compounds and application to improve the preservation of food Non thermal processing technologies in the food industry Nanotechnology in food production and Intelligent packaging and sensors for food applications Volume 6 Intelligent Packaging Current technologies and applications covers intelligent packaging by discussing the aspects of emerging technologies and strategies to obtain such packaging relevant to the development of traceable food products Topics such as indicators sensors tracing devices and intelligent packaging used in various food products such as dairy meat fruits and vegetables are also explored The series is edited by Dr Jos Manuel Lorenzo and authored by a team of global experts in the fields of Food Quality and Safety providing comprehensive knowledge to food industry personals and scientists Provides fundamentals and the latest developments for emerging technologies in food packaging Covers the main novel and modern intelligent and sensors technologies and strategies to obtain intelligent packaging Explores utilization optimization and the development of technologies per se on the developments of intelligent packaging

Principles of Wireless Sensor Networks

Dr.Shilpa.R,Dr.Geetha.M.N,Dr.Rajini.S,Dr.Chaithanya.D.J,2024-09-05 Dr Shilpa R Associate Professor Department of Electronics and Communication Engineering Vidyavardhaka College of Engineering Mysore Karnataka India Dr Geetha M N Assistant Professor Department of Electronics and Communication Engineering Vidyavardhaka College of Engineering Mysore Karnataka India Dr Rajini S Associate Professor Department of Information Science and Engineering Vidyavardhaka College of Engineering Mysore Karnataka India Dr Chaithanya D J Assistant Professor Department of Electronics and Communication Engineering Vidyavardhaka college of Engineering Mysore Karnataka India

Wireless Sensor Networks

Senchun Chai,Zhaoyang Wang,Baihai Zhang,Lingguo Cui,Runqi Chai,2020-08-16 This book presents state of the art research advances in the field of wireless sensor networks systems and approaches It provides in depth study on a number of major topics such as protocols localization coverage control community detection small world analysis etc Multidisciplinary in nature and closely integrating theory and practice the book will be of interest to all university researchers telecommunications engineers and graduate students in wireless sensor networks who wish to learn the core principles methods algorithms and applications It would help readers rapidly grasp major topics of wireless sensor network and their advances

Sensor Networks and Configuration Nitaigour P. Mahalik,2007-06-04 Advances in networking influence many kinds of monitoring and control systems in the most dramatic way Sensor network and configuration falls under the category of modern networking systems Wireless Sensor Network WSN has emerged and caters to the need for real world applications Methodology and design of WSN represents a broad research topic with applications in many sectors such as industry home

computing agriculture environment and so on based on the adoption of fundamental principles and the state of the art technology WSN has been preferred choice for the design and development of next generation monitoring and control systems This book incorporates a selection of research and development papers Its scope is on history and background underlying design methodology application domains and recent developments The readers will be able to understand the underlying technology philosophy concepts ideas and principles with regard to broader areas of sensor network Aspects of sensor network in terms of basics standardization design process practice techniques platforms and experimental results have been presented in proper order

Handbook of Research on Developments and Trends in Wireless Sensor Networks: From Principle to Practice Jin, Hai, Jiang, Wenbin, 2010-02-28 This book showcases the work many devoted wireless sensor network researchers all over world and exhibits the up to date developments of WSNs from various perspectives Provided by publisher [Concepts, Applications, Experimentation and Analysis of Wireless Sensor Networks](#)

Hossam Mahmoud Ahmad Fahmy, 2023-02-13 The third edition of this hands on textbook pursues the focus on the principles of wireless sensor networks WSNs their applications their protocols and standards and their analysis and test tools a meticulous care has been accorded to the definitions and terminology To make WSNs felt and seen the adopted technologies as well as their manufacturers are presented in detail In introductory computer networking books chapters sequencing follows the bottom up or top down architecture of the seven layers protocol This book is some more steps after both horizontally and vertically the view and understanding are getting clearer chapters ordering is based on topics significance to the elaboration of wireless sensor networks WSNs concepts and issues This book is intended for a wide audience it is meant to be help and motivate for both the senior undergraduates postgraduates researchers and practitioners concepts and WSNs related applications are laid out research and practical issues are backed by appropriate literature and new trends are put under focus For senior undergraduate students it familiarizes with conceptual foundations applications and practical projects implementations For graduate students and researchers energy efficient routing protocols transport layer protocols and cross layering protocols approach are presented Testbeds and simulators provide a must follow emphasis on the analysis methods and tools for WSNs For practitioners besides applications and deployment the manufacturers and components of WSNs at several platforms and testbeds are fully explored

[Data Requirements for Integrated Urban Water Management](#) Tim Fletcher, Ana Deletic, 2008-01-07 Integrated urban water management relies on data allowing us to analyse understand and predict the behaviour of the individual water cycle components and their interactions The concomitant monitoring of the complex of urban water system elements makes it possible to grasp the entirety of relations among the various components of the urban water cycle and so develop a holistic approach to solving urban water problems Data Requirements for Integrated Urban Water Managements issuing from UNESCO s International Hydrological Programme project on this topic is geared towards improving integrated urban water management by providing guidance on the collection validation storage

assessment and utilization of the relevant data The first part of this volume describes general principles for developing a monitoring programme in support of sustainable urban water management The second part examines in detail the monitoring of individual water cycle components Two case studies in the final part illustrating attempts to deliver an integrated monitoring system help demonstrate the fundamental principles of sustainable urban water management elaborated here

Wireless Sensor Networks Jun Zheng, Abbas Jamalipour, 2009-10-27 Learn the fundamental concepts major challenges and effective solutions in wireless sensor networking This book provides a comprehensive and systematic introduction to the fundamental concepts major challenges and effective solutions in wireless sensor networking WSN Distinguished from other books it focuses on the networking aspects of WSNs and covers the most important networking issues including network architecture design medium access control routing and data dissemination node clustering node localization query processing data aggregation transport and quality of service time synchronization network security and sensor network standards With contributions from internationally renowned researchers Wireless Sensor Networks expertly strikes a balance between fundamental concepts and state of the art technologies providing readers with unprecedented insights into WSNs from a networking perspective It is essential reading for a broad audience including academic researchers research engineers and practitioners in industry It is also suitable as a textbook or supplementary reading for electrical engineering computer engineering and computer science courses at the graduate level

Wireless Sensor Networks Hossam Mahmoud Ahmad Fahmy, 2020-02-24 This second book by the author on WSNs focuses on the concepts of energy and energy harvesting and management techniques Definitions and terminologies are made clear without leaning on the relaxing assumption that they are already known or easily reachable the reader is not to be diverted from the main course Neatly drawn figures assist in viewing and imagining the offered topics To make energy related topics felt and seen the adopted technologies as well as their manufacturers are presented in details With such a depth this book is intended for a wide audience it is meant to be helper and motivator for the senior undergraduates postgraduates researchers and practitioners concepts and energy related applications are laid out research and practical issues are backed by appropriate literature and new trends are put under focus For senior undergraduate students it familiarizes with conceptual foundations and practical projects implementations Also it is intended for graduate students working on their thesis and in need of specific knowledge on WSNs and the related energy harvesting and management techniques Moreover it is targeting researchers and practitioners interested in features and applications of WSNs and on the available energy harvesting and management projects and testbeds Exercises at the end of each chapter are not just questions and answers they are not limited to recapitulate ideas Their design objective is not bound to be a methodical review of the provided concepts but rather as a motivator for lot more of searching finding and comparing beyond what has been presented in the book

Guide to Wireless Sensor Networks Sudip Misra, Isaac Woungang, Subhas Chandra Misra, 2009-05-29 Overview and

Goals Wireless communication technologies are undergoing rapid advancements The last few years have experienced a steep growth in research in the area of wireless sensor networks WSNs In WSNs communication takes place with the help of spatially distributed autonomous sensor nodes equipped to sense specific information WSNs especially the ones that have gained much popularity in the recent years are typically ad hoc in nature and they inherit many characteristics features of wireless ad hoc networks such as the ability for infrastructure less setup minimal or no reliance on network planning and the ability of the nodes to self organize and self configure without the involvement of a centralized network manager router access point or a switch These features help to set up WSNs fast in situations where there is no existing network setup or in times when setting up a fixed infrastructure network is considered infeasible for example in times of emergency or during relief operations WSNs find a variety of applications in both the military and the civilian population worldwide such as in cases of enemy intrusion in the battlefield object tracking habitat monitoring patient monitoring fire detection and so on Even though sensor networks have emerged to be attractive and they hold great promises for our future there are several challenges that need to be addressed Some of the well known challenges are attributed to issues relating to coverage and deployment scalability quality of service size computational power energy efficiency and security

Protocols and Architectures for Wireless Sensor Networks Holger Karl, Andreas Willig, 2007-10-08 Learn all you need to know about wireless sensor networks

Protocols and Architectures for Wireless Sensor Networks provides a thorough description of the nuts and bolts of wireless sensor networks The authors give an overview of the state of the art putting all the individual solutions into perspective with one and other Numerous practical examples case studies and illustrations demonstrate the theory techniques and results presented The clear chapter structure listing learning objectives outline and summarizing key points help guide the reader expertly through the material Protocols and Architectures for Wireless Sensor Networks Covers architecture and communications protocols in detail with practical implementation examples and case studies Provides an understanding of mutual relationships and dependencies between different protocols and architectural decisions Offers an in depth investigation of relevant protocol mechanisms Shows which protocols are suitable for which tasks within a wireless sensor network and in which circumstances they perform efficiently Features an extensive website with the bibliography PowerPoint slides additional exercises and worked solutions This text provides academic researchers graduate students in computer science computer engineering and electrical engineering as well as practitioners in industry and research engineers with an understanding of the specific design challenges and solutions for wireless sensor networks Check out www.wiley.com/go/wsn for accompanying course material I am deeply impressed by the book of Karl Willig It is by far the most complete source for wireless sensor networks The book covers almost all topics related to sensor networks gives an amazing number of references and thus is the perfect source for students teachers and researchers Throughout the book the reader will find high quality text figures formulas comparisons etc all you need for a sound basis to start sensor network research Prof

Jochen Schiller Institute of Computer Science Freie Universität Berlin *Advanced Principles of Wireless Sensor Networks*
Arthur Nelson, 2020-09-22 Wireless sensor network is a group of dedicated and spatially distributed sensors used to monitor and record the physical conditions of the environment. It also organizes the collected data at a central location. It helps in measuring the environmental conditions such as temperature, pollution levels, sound, humidity, and wind. They rely on wireless connectivity and spontaneously form a network to ensure the wireless transportation of sensor data. Modern wireless sensor networks are bi-directional that enable the control of sensor activity. It plays an important role in military applications such as battlefield surveillance. Such networks are also used in many industrial and consumer applications such as industrial process monitoring and control and machine health monitoring. This book elucidates the concepts and innovative models around prospective developments with respect to wireless sensors network. Some of the diverse topics covered herein book address the varied branches that fall under this category. The book is appropriate for those seeking detailed information in this area.

Wireless Sensor Networks in Smart Environments Domenico Ciuonzo, Pierluigi Salvo Rossi, 2025-09-03 Understand the fundamental building blocks of the Internet of Things. The Internet of Things is the term for an ever-growing body of physical devices, vehicles, rooms, and other objects that can collect and exchange data using embedded capacities for network connectivity. Wireless Sensor Networks (WSNs) represent the sensing arm of this network of objects, providing the mechanism for collecting and transmitting data from these objects. *Wireless Sensor Networks in Smart Environments* offers a timely and comprehensive overview of these networks and their broader impacts. Adopting both methodology and application-oriented perspectives, the book covers both the foundational principles of WSNs and the most recent technological developments. Readers will also find concrete real-world examples of recent applications. Detailed discussion of WSNs from the perspectives of signal processing, data communication, and security. Coverage of inference, learning, control, and decision-making processes. *Wireless Sensor Networks in Smart Environments* is ideal for researchers and graduate students working in signal

processing, communications, and machine learning. **The Art of Wireless Sensor Networks** Habib M. Ammari, 2013-12-13 During the last one and a half decades, wireless sensor networks have witnessed significant growth and tremendous development in both academia and industry. *The Art of Wireless Sensor Networks Volume 1: Fundamentals* focuses on the fundamentals, concepts in the design, analysis, and implementation of wireless sensor networks. It covers the various layers of the lifecycle of this type of network from the physical layer up to the application layer. Its rationale is that the first volume covers contemporary design issues, tools, and protocols for radio-based two-dimensional terrestrial sensor networks. All the book chapters in this volume include up-to-date research work spanning various classic facets of the physical properties and functional behavior of wireless sensor networks, including physical layer, medium access control, data routing, topology management, mobility management, localization, task management, data management, data gathering, security, middleware, sensor technology standards, and operating systems. This book will be an excellent source of information for both senior

undergraduate and graduate students majoring in computer science computer engineering electrical engineering or any related discipline In addition computer scientists researchers and practitioners in both academia and industry will find this book useful and interesting

Computational Intelligence for Wireless Sensor Networks Sandip Kumar Chaurasiya, Joydeep Dutta, Arindam Biswas, Gorachand Dutta, Mrinal Kanti Sarkar, 2022-07-25 Computational Intelligence for Wireless Sensor Networks Principles and Applications provides an integrative overview of the computational intelligence CI in wireless sensor networks and enabled technologies It aims to demonstrate how the paradigm of computational intelligence can benefit Wireless Sensor Networks WSNs and sensor enabled technologies to overcome their existing issues This book provides extensive coverage of the multiple design challenges of WSNs and associated technologies such as clustering routing media access security mobility and design of energy efficient network operations It also describes various CI strategies such as fuzzy computing evolutionary computing reinforcement learning artificial intelligence swarm intelligence teaching learning based optimization etc It also discusses applying the techniques mentioned above in wireless sensor networks and sensor enabled technologies to improve their design The book offers comprehensive coverage of related topics including Emergence of intelligence in wireless sensor networks Taxonomy of computational intelligence Detailed discussion of various metaheuristic techniques Development of intelligent MAC protocols Development of intelligent routing protocols Security management in WSNs This book mainly addresses the challenges pertaining to the development of intelligent network systems via computational intelligence It provides insights into how intelligence has been pursued and can be further integrated in the development of sensor enabled applications

Wireless Sensor Networks Ibrahiem M. M. El Emary, S. Ramakrishnan, 2013-08-28 Although there are many books available on WSNs most are low level introductory books The few available for advanced readers fail to convey the breadth of knowledge required for those aiming to develop next generation solutions for WSNs Filling this void *Wireless Sensor Networks From Theory to Applications* supplies comprehensive coverage of WSNs In order to provide the wide ranging guidance required the book brings together the contributions of domain experts working in the various subfields of WSNs worldwide This edited volume examines recent advances in WSN technologies and considers the theoretical problems in WSN including issues with monitoring routing and power control It also details methodologies that can provide solutions to these problems The book's 25 chapters are divided into seven parts Data Collection Physical Layer and Interfacing Routing and Transport Protocols Energy Saving Approaches Mobile and Multimedia WSN Data Storage and Monitoring Applications The book examines applications of WSN across a range of fields including health military transportation and mining Addressing the main challenges in applying WSNs across all phases of our life it explains how WSNs can assist in community development Complete with a list of references at the end of each chapter this book is ideal for senior undergraduate and postgraduate students researchers scholars academics industrial researchers and practicing engineers working on WSNs The text assumes that readers possess a foundation in

computer networks wireless communication and basic electronics

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