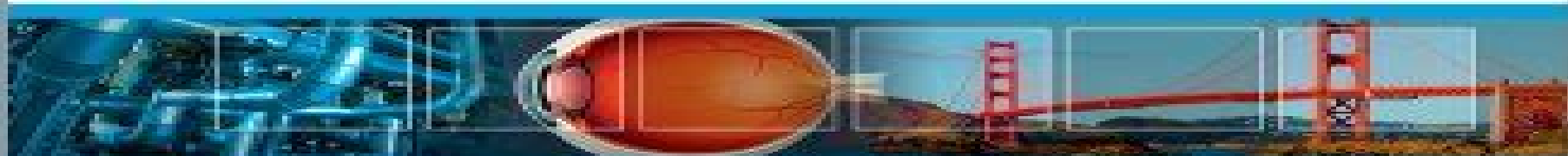


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Wireless Sensor Networks Book

Anna Forster



Wireless Sensor Networks Book:

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 *Building Wireless Sensor Networks* Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy, 2017-12-19 Building Wireless Sensor Networks Theoretical and Practical Perspectives presents the state of the art of wireless sensor networks WSNs from fundamental concepts to cutting edge technologies Focusing on WSN topics ideal for undergraduate and postgraduate curricula this book Provides essential knowledge of the contemporary theory and practice of wireless sensor networking Describes WSN architectures protocols and operating systems Details the routing and data aggregation algorithms Addresses WSN security and energy efficiency Includes sample programs for experimentation The book offers overarching coverage of this exciting field filling a critical gap in the existing literature *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

Introduction to Wireless Sensor Networks Anna Forster,2016-12-14 Explores real world wireless sensor network development deployment and applications Presents state of the art protocols and algorithms Includes end of chapter summaries exercises and references For students there are hardware overviews reading links programming examples and tests available at website For Instructors there are PowerPoint slides and solutions available at website *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 Handbook of Research on Developments and Trends in Wireless Sensor Networks Hai Jin,2010 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 **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

Security for Wireless Sensor Networks Donggang Liu, Peng Ning, 2007-02-15 The recent technological advances have made it possible to deploy small low power low bandwidth and multi functional wireless sensor nodes to monitor and report the conditions and events in their local environments A large collection of these sensor nodes can thus form a wireless sensor network in an ad hoc manner creating a new type of information systems Such sensor networks have recently emerged as an important means to study and interact with the physical world and have received a lot of attention due to their wide applications in military and civilian operations such as target tracking and data acquisition However in many of these applications wireless sensor networks could be deployed in hostile environments where there are malicious attacks against the network Providing security services in sensor networks however turns out to be a very challenging task First sensor nodes usually have limited resources such as storage bandwidth computation and energy It is often undesirable to implement expensive algorithms e.g frequent public key operations on sensor nodes Second sensor nodes are usually deployed unattended and built without compromise prevention in mind An attacker can easily capture and compromise a few sensor nodes without being noticed When sensor nodes are compromised the attacker can learn all the secrets stored on them and launch a variety of attacks Thus any security mechanism for sensor networks has to be resilient to compromised sensor nodes

Dynamic Wireless Sensor Networks Mohamed Elhoseny, Aboul Ella Hassanien, 2018-05-25 This book provides a collection of high quality research works that address broad challenges in both theoretical and applied aspects of dynamic wireless sensor networks WSNs for intelligent and smart applications in a variety of environments It presents the most central concepts associated with Dynamic Wireless Sensor Networks applications and discusses issues surrounding Wireless Sensor Network Structures for complex and mobile based applications The book subsequently discusses several topics related to energy management in dynamic WSNs and reviews the steps involved in building a secure and trusted data transmission model using the WSN applications of intelligent environments Lastly it discusses the applications of WSNs in live data systems such as SCADA systems Readers will discover a collection of high quality research works that address broad challenges in both theoretical and applied aspects of WSNs for intelligent real life applications In addition the book presents original research on the application of a dynamic WSN to solve the problem of energy consumption in a secure WSN during the process of data aggregation and transmission Written by respected experts

in the field the book will stimulate further efforts in the application of the intelligent WSNs model helping to solve the problem of data processing in a limited resource WSN based environment

Wireless Sensor Networks Feng Zhao, Leonidas Guibas, 2004-07-21 Information processing in sensor networks is a rapidly emerging area of computer science and electrical engineering research Because of advances in micro sensors wireless networking and embedded processing ad hoc networks of sensor are becoming increasingly available for commercial military and homeland security applications Examples include monitoring e g traffic habitat security industrial sensing and diagnostics e g factory appliances infrastructures i e power grid water distribution waste disposal and battle awareness e g multi target tracking This book introduces practitioners to the fundamental issues and technology constraints concerning various aspects of sensor networks such as information organization querying routing and self organization using concrete examples and does so by using concrete examples from current research and implementation efforts Written for practitioners researchers and students and relevant to all application areas including environmental monitoring industrial sensing and diagnostics automotive and transportation security and surveillance military and battlefield uses and large scale infrastructural maintenance Skillfully integrates the many disciplines at work in wireless sensor network design signal processing and estimation communication theory and protocols distributed algorithms and databases probabilistic reasoning energy aware computing design methodologies evaluation metrics and more Demonstrates how querying data routing and network self organization can support high level information processing tasks

Wireless Sensor Networks and Applications Yingshu Li, My T. Thai, 2008-02-10 Wireless sensor networks are being employed in a variety applications ranging from medical to military and from home to industry The principle aim of this book is to provide a reference tool for the increasing number of scientists who depend upon sensor networks in some way The book is organized into several sections each including chapters exploring a specific topic Wireless sensor networks are attracting great attention and there are many research topics yet to be studied In this book the topics covered include network design and modelling network management data management security and applications The articles presented in the book are expository but of a scholarly nature including the appropriate history background a review of the state of the art thinking relative to the topic as well as a discussion of unsolved problems that are of special interest The target readers of this book include the researchers in computer science computer engineering and applied mathematics as well as students in these subjects Specialists as well as general readers will find the articles stimulating and helpful Book Organization The book is organized into five sections Section I introduces the design and modelling of sensor networks Chapter 1 by Iyer Kulkarni Mhatre and Rosenberg presents a taxonomy of wireless sensor networks based on their application level objectives traffic characteristics and data delivery requirements Popa and Lewis in Chapter 2 describe some algorithms for systematic exploration of unknown environments using a mobile wireless sensor network

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, re-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.

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.

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* 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 [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 *Smart Wireless Sensor Networks* Yen Kheng Tan, Hoang Duc Chinh, 2010-12-14 The recent development of communication and sensor technology results in the growth of a new attractive and challenging area wireless sensor networks WSNs A wireless sensor network which consists of a large number of sensor nodes is deployed in environmental fields to serve various applications Facilitated with the ability of wireless communication and intelligent computation these nodes become smart sensors which do not only perceive ambient physical parameters but also be able to process information cooperate with each other and self organize into the network These new features assist the sensor nodes as well as the network to operate more efficiently in terms of both data acquisition and energy consumption Special purposes of the applications require design and operation of WSNs different from conventional networks such as the internet The network design must take into account of the objectives of specific applications The nature of deployed environment must be considered The limited of sensor nodes resources such as memory computational ability communication bandwidth and energy source are the challenges in network design A smart wireless sensor network must be able to deal with these constraints as well as to guarantee the connectivity coverage reliability and security of network s operation for a maximized

lifetime This book discusses various aspects of designing such smart wireless sensor networks Main topics includes design methodologies network protocols and algorithms quality of service management coverage optimization time synchronization and security techniques for sensor networks

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

The Art of Wireless Sensor Networks Habib M. Ammari, 2013-12-31

The Art of Wireless Sensor Networks Habib M. Ammari, 2013-12-17 During the last one and a half decades wireless sensor networks have witnessed significant growth and tremendous development in both academia and industry A large number of researchers including computer scientists and engineers have been interested in solving challenging problems that span all the layers of the protocol stack of sensor networking systems Several venues such as journals conferences and workshops have been launched to cover innovative research and practice in this promising and rapidly advancing field Because of these trends I thought it would be beneficial to provide our sensor networks community with a comprehensive reference on as much of the findings as possible on a variety of topics in wireless sensor networks As this area of research is in continuous progress it does not seem to be a reasonable solution to keep delaying the publication of such reference any more This book relates to the second volume and focuses on the advanced topics and applications of wireless sensor networks Our rationale is that the second volume has all application specific and non conventional sensor networks emerging techniques and advanced topics that are not as matured as what is covered in the first volume Thus the second volume deals with three dimensional underground underwater body mounted and societal networks Following Donald E Knuth s above quoted elegant strategy to focus on several important fields The Art of Computer Programming Fundamental Algorithms 1997 all the book chapters in this volume include up to date research work spanning various topics such as stochastic modeling barrier and spatiotemporal coverage tracking estimation counting coverage and localization in three dimensional sensor networks topology control and routing in three dimensional sensor networks underground and underwater sensor networks multimedia and body sensor networks and social sensing Most of these major topics can be covered in an advanced course on wireless sensor networks This book will be an excellent source of information for graduate students majoring in computer science computer engineering electrical engineering or any related discipline Furthermore computer scientists researchers and practitioners in both academia and industry will find this book useful and interesting

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