

WSN: Wireless Sensor Network
MTTF: Mean Time to Failure



Wireless Sensor Networks

**Srikanta Patnaik, Xiaolong Li, Yeon-Mo
Yang**



Wireless Sensor Networks :

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

Recent Development in Wireless Sensor and Ad-hoc Networks Srikanta Patnaik, Xiaolong Li, Yeon-Mo Yang, 2014-12-01 Wireless Sensor Network WSN consists of numerous physically distributed autonomous devices used for sensing and monitoring the physical and or environmental conditions A WSN uses a gateway that provides wireless connectivity to the wired world as well as distributed networks There are many open problems related to Ad Hoc networks and its applications Looking at the expansion of the cellular infrastructure Ad Hoc network may be acting as the basis of the 4th generation wireless technology with the new paradigm of anytime anywhere communications To realize this the real challenge would be the security authorization and management issues of the large scale WSNs This book is an edited volume in the broad area of WSNs The book covers various chapters like Multi Channel Wireless Sensor Networks its Coverage Connectivity as well as Deployment It covers comparison of various communication protocols and algorithms such as MANET ODMRP and AOMDV Protocols for Ad hoc Multicasting Location Based Coordinated Routing Protocol and other Token based group local mutual exclusion Algorithms The book also covers a chapter on Extended Ad hoc On Demand Distance Vector EAODV routing protocol based on Distributed Minimum Transmission Multicast Routing DMTMR One chapter is dedicated to OCDMA and its future application and another chapter covers development of Home Automation System using SWN

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** 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

Introduction to Wireless Sensor Networks Dr. Suhas S. Khot, Prof. Rahimraja G. Shaikh, 2024-02-28 This book mainly focuses on Undergraduate students to understand the basic concept of Wireless Sensor Networks WSN Introduction to Wireless Sensor Network Book Explain various concepts and terminologies used in WSN Describe importance and use of radio communication and link management in WSN Explain various wireless standards and protocols associated with WSN Recognize importance of localization and routing techniques used in WSN Understand techniques of data aggregation and importance of security in WSN Examine the issues involved in design and deployment of WSN **Introduction to Wireless Sensor Networks** Anna Forster, 2016-07-12 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 **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

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 sent 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 C.S.

Raghavendra, Krishna M. Sivalingam, Taieb Znati, 2006-09-01 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

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

Industrial Wireless Sensor

Networks R Budampati,S Kolavennu,2015-10-23 Industrial Wireless Sensor Networks Monitoring Control and Automation explores the explosive growth that has occurred in the use of wireless sensor networks in a variety of applications during the last few years As wireless technology can reduce costs increase productivity and ease maintenance the book looks at the progress in standardization efforts regarding reliability security performance power consumption and integration Early sections of the book discuss issues such as media access control MAC antenna design and site survey energy harvesting and explosion proof design Subsequent sections present WSN standards including ISA100 ZigBee™ Wifi™ WirelessHART™ and 6LoWPAN and the applications of WSNs in the oil and gas chemical food and nuclear power industries Reviews technologies and standards for industrial wireless sensor networks Considers particular applications for the technology and their ability to reduce costs increase productivity and ease maintenance Focuses on industry needs and standardization efforts regarding reliability security performance power consumption and integration

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 distributedautonomoussensornodesequippedtosensespeci cinformation WSNs especially the ones that have gained much popularity in the recent years are ty cally 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 con gure 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 xed infrastructure network is considered infeasible for example in times of emergency or during relief erations WSNs nd a variety of applications in both the military and the civilian population worldwide such as in cases of enemy

intrusion in the battle field 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 Ibrahiem M. M. El Emery, S. Ramakrishnan, 2013-08-28 Supplying comprehensive coverage of WSNs this book covers the latest advances in WSN technologies It considers some of theoretical problems in WSN including issues with monitoring routing and power control and details methodologies that can provide solutions to these problems It examines applications of WSN across a range of fields including health defense 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

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 Elena Gaura, Lewis Girod, James Brusey, Michael Allen, Geoffrey Challen, 2010-09-14 The twentieth century ended with the vision of smart dust a network of wirelessly connected devices whose size would match that of a dust particle each one a self contained package equipped with sensing computation communication and power Smart dust held the promise to bridge the physical and digital worlds in the most unobtrusive manner blending together realms that were previously considered well separated Applications involved scattering hundreds or even thousands of smart dust devices to monitor various environmental quantities in scenarios ranging from habitat monitoring to disaster management The devices were envisioned to self organize to accomplish their task in the most efficient way As such smart dust would become a powerful tool assisting the daily activities of scientists and engineers in a wide range of disparate disciplines Wireless sensor networks WSNs as we know them today are the most noteworthy attempt at implementing the smart dust vision In the last decade this field has seen a fast growing investment from both academia and industry Significant financial resources and manpower have gone into making the smart dust vision a reality through WSNs Yet we still cannot claim complete success At present only specialist computer scientists or computer engineers have the necessary background to walk the road from conception to a fully deployed and running WSN system

Industrial Wireless Sensor Networks V. Çağrı

Güngör, Gerhard P. Hancke, 2013-04-04 The collaborative nature of industrial wireless sensor networks IWSNs brings several advantages over traditional wired industrial monitoring and control systems including self organization rapid deployment flexibility and inherent intelligent processing In this regard IWSNs play a vital role in creating more reliable efficient and productive industrial systems thus improving companies competitiveness in the marketplace Industrial Wireless Sensor Networks Applications Protocols and Standards examines the current state of the art in industrial wireless sensor networks and outlines future directions for research What Are the Main Challenges in Developing IWSN Systems Featuring contributions by researchers around the world this book explores the software and hardware platforms protocols and standards that are needed to address the unique challenges posed by IWSN systems It offers an in depth review of emerging and already deployed IWSN applications and technologies and outlines technical issues and design objectives In particular the book covers radio technologies energy harvesting techniques and network and resource management It also discusses issues critical to industrial applications such as latency fault tolerance synchronization real time constraints network security and cross layer design A chapter on standards highlights the need for specific wireless communication standards for industrial applications A Starting Point for Further Research Delving into wireless sensor networks from an industrial perspective this comprehensive work provides readers with a better understanding of the potential advantages and research challenges of IWSN applications A contemporary reference for anyone working at the cutting edge of industrial automation communication systems and networks it will inspire further exploration in this promising research area

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

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 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 Designing Wireless Sensor Network Solutions for Tactical ISR Timothy D. Cole,2020-09-30 This comprehensive resource demonstrates how wireless sensor network WSN systems a key element of the Internet of Things IoT are designed and evaluated to solve problems associated with autonomous sensing systems Functional blocks that form WSN based systems are described chapter by chapter providing the reader with a progressive learning path through all aspects of designing remote sensing capabilities using a WSN based system The development and a full description of fundamental performance equations and technological solutions required by these real time systems are included This book explores the objectives and goals associated with tactical intelligence surveillance and reconnaissance T ISR missions Readers gain insight into the correlation between fine grained sensor resolution associated with WSN based system complexities and the difficult requirements associated with T ISR missions The book demonstrates how to wield emergent technologies to arrive at reliable and robust wireless networking for T ISR and associated tasks using low cost low power persistent sensor nodes WSN is broken down into constituent subsystems key components functional descriptions and attendant mathematical descriptions This resource explains how the design of each element can be approached and successfully integrated into a viable and responsive sensor system that is autonomous adaptable to mission objectives and environments and deployable worldwide It also provides examples of what not to do based on lessons learned from past and current systems that failed to provide end users with the required information Chapters are linked together in order of system assembly concepts to operation to provide the reader with a full toolset that can help deliver versatility in design decisions solutions and understanding of such systems end to end

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