

Signals and Communication Technology

Shuang-Hua Yang

Wireless Sensor Networks

Principles, Design and Applications

 Springer

Wireless Sensor Networks Principles Design And Applications Signals And Communication Technology

Mao, Guoqiang, Fidan, Baris



Wireless Sensor Networks Principles Design And Applications Signals And Communication Technology:

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

Green Information and Communication Systems for a Sustainable Future Rajshree Srivastava, Sandeep Kautish, Rajeev Tiwari, 2020-11-18 Green Information and Communication Systems for a Sustainable Future covers the fundamental concepts applications algorithms protocols new trends challenges and research results in the area of Green Information and Communication Systems This book provides the reader with up to date information on core and specialized issues making it highly suitable for both the novice and the experienced researcher in the field The book covers theoretical and practical perspectives on network design It includes how green ICT initiatives and applications can play a major role in reducing CO2 emissions and focuses on industry and how it can promote awareness and implementation of Green ICT The book discusses scholarship and research in green and sustainable IT for business and organizations and uses the power of IT to usher sustainability into other parts of an organization Business and management educators management researchers doctoral scholars university teaching personnel and policy makers as well as members of higher academic research organizations will all discover this book to be an indispensable guide to Green Information and Communication Systems It will also serve as a key resource for Industrial and Management training organizations all over the world

Multimodal Intelligent Sensing in Modern Applications Masood Ur Rehman, Ahmed Zoha, Muhammad Ali Jamshed, Naeem Ramzan, 2025-02-26 Discover the design implementation and analytical techniques for multi modal intelligent sensing in this cutting edge text The Internet of Things IoT is becoming ever more comprehensively integrated into everyday life The intelligent systems that power smart technologies rely on increasingly sophisticated sensors in order to monitor inputs and respond dynamically Multi modal sensing offers enormous benefits for these technologies but also comes with greater challenges it has never been more

essential to offer energy efficient reliable interference free sensing systems for use with the modern Internet of Things

Multimodal Intelligent Sensing in Modern Applications provides an introduction to systems which incorporate multiple sensors to produce situational awareness and process inputs It is divided into three parts physical design aspects data acquisition and analysis techniques and security and energy challenges which together cover all the major topics in multimodal sensing The result is an indispensable volume for engineers and other professionals looking to design the smart devices of the future Multimodal Intelligent Sensing in Modern Applications readers will also find A field of multidisciplinary contributors in fields like wireless communications signal processing and sensor design Coverage of both software and hardware solutions to sensing challenges Detailed treatment of advanced topics like efficient deployment data fusion machine learning and more Multimodal Intelligent Sensing in Modern Applications is ideal for experienced engineers and designers who need to apply their skills to Internet of Things and 5G 6G networks It can also act an introductory text for graduate researchers into understanding the background design and implementation of various sensor types and data analytics tools

Design of an Intelligent Embedded System for Condition Monitoring of an Industrial Robot Alaa Abdulhady Jaber, 2016-09-08 This thesis introduces a successfully designed and commissioned intelligent health monitoring system specifically for use on any industrial robot which is able to predict the onset of faults in the joints of the geared transmissions However the developed embedded wireless condition monitoring system leads itself very well for applications on any power transmission equipment in which the loads and speeds are not constant and access is restricted As such this provides significant scope for future development Three significant achievements are presented in this thesis First the development of a condition monitoring algorithm based on vibration analysis of an industrial robot for fault detection and diagnosis The combined use of a statistical control chart with time domain signal analysis for detecting a fault via an arm mounted wireless processor system represents the first stage of fault detection Second the design and development of a sophisticated embedded microprocessor base station for online implementation of the intelligent condition monitoring algorithm and third the implementation of a discrete wavelet transform using an artificial neural network with statistical feature extraction for robot fault diagnosis in which the vibration signals are first decomposed into eight levels of wavelet coefficients

Wireless Sensor Networks Hossam Mahmoud Ahmad Fahmy, 2016-03-02 This book focuses on the principles of wireless sensor networks WSNs their applications and their analysis tools with meticulous attention paid to definitions and terminology This book presents the adopted technologies and their manufacturers in detail making WSNs tangible for the reader In introductory computer networking books chapter sequencing follows the bottom up or top down architecture of the 7 layer protocol This book addresses subsequent steps in this process both horizontally and vertically thus fostering a clearer and deeper understanding through chapters that elaborate on WSN concepts and issues With such depth this book is intended for a wide audience it is meant to be a helper and motivator for senior undergraduates postgraduates researchers and

practitioners It lays out important concepts and WSN related applications uses appropriate literature to back research and practical issues and focuses on new trends Senior undergraduate students can use it to familiarize themselves with conceptual foundations and practical project implementations For graduate students and researchers test beds and simulators provide vital insights into analysis methods and tools for WSNs Lastly in addition to applications and deployment practitioners will be able to learn more about WSN manufacturers and components within several platforms and test beds

Cooperation in Wireless Networks: Principles and Applications Frank H. P. Fitzek, Marcos D. Katz, 2006-07-25

Cooperation in Wireless Networks Principles and Applications covers the underlying principles of cooperative techniques as well as several applications demonstrating the use of such techniques in practical systems The work is written in a collaborative manner by several authors from Asia America and Europe Twenty chapters introduce and discuss in detail the main cooperative strategies for the whole communication protocol stack from the application layer down to the physical layer Furthermore power saving strategies security hardware realization and user scenarios for cooperative communication systems are introduced and discussed The book also summarizes the strength of cooperation for upcoming generation of wireless communication systems clearly motivating the use of cooperative techniques and pointing out that cooperation will become one of the key technologies enabling 4G and beyond This book puts into one volume a comprehensive and technically rich view of the wireless communications scene from a cooperation point of view

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

Localization Algorithms and Strategies for Wireless Sensor Networks: Monitoring and Surveillance

Techniques for Target Tracking Mao, Guoqiang, Fidan, Baris, 2009-05-31 Wireless localization techniques are an area that has attracted interest from both industry and academia with self localization capability providing a highly desirable characteristic of wireless sensor networks Localization Algorithms and Strategies for Wireless Sensor Networks encompasses the significant and fast growing area of wireless localization techniques This book provides comprehensive and up to date coverage of topics and fundamental theories underpinning measurement techniques and localization algorithms A useful compilation for academicians researchers and practitioners this Premier Reference Source contains relevant references and the latest studies emerging out of the wireless sensor network field 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**

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

mangers and other professionals in these fields **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 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 WIRELESS SENSOR NETWORKS NARAYAN CHANGDER,2024-03-09 Note Anyone can request the PDF version of this practice set workbook by emailing me at cbsenet4u gmail com You can also get full PDF books in quiz format on our youtube channel <https://www.youtube.com/SmartQuizWorld> n2q I will send you a PDF version of this workbook This book has been designed for candidates preparing for various competitive examinations It contains many objective questions specifically designed for different exams Answer keys are provided at the end of each page It will undoubtedly serve as the best preparation material for aspirants This book is an engaging quiz eBook for all and offers something for everyone This book will satisfy the curiosity of most students while also challenging their trivia skills and introducing them to new information Use this invaluable book to test your subject matter expertise Multiple choice exams are a common assessment method that all prospective candidates must be familiar with in today s academic environment Although the majority of students are accustomed to this MCQ format many are not well versed in it To achieve success in MCQ tests quizzes and trivia challenges one requires test taking techniques and skills in addition to subject knowledge It also provides you with the skills and information you need to achieve a good score in challenging tests or competitive examinations Whether you have studied the subject on your own read for pleasure or completed coursework it will assess your knowledge and prepare you for competitive exams quizzes trivia and more

Wireless Sensor Networks and Applications Yingshu Li,My T. Thai,2008-02-10 Wireless sensor networks are being employed in a variety applications ra ing 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 speci c 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 n work 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 s ence computer engineering and applied mathematics as well as students in these subjects Specialists as well as general readers will nd the articles st ulating and helpful Book Organization The book is organized into ve 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 tra c characteristics and data delivery requi ments Popa and Lewis in Chapter 2 describe some algorithms for systematic

exploration of unknown environments using a mobile wireless sensor network **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 **Handbook of Signal Processing Systems** Shuvra S. Bhattacharyya, Ed F. Deprettere, Rainer Leupers, Jarmo Takala, 2010-09-10 It gives me immense pleasure to introduce this timely handbook to the research development communities in the field of signal processing systems SPS This is the first of its kind and represents state of the arts coverage of research in this field The driving force behind information technologies IT hinges critically upon the major advances in both component integration and system integration The major breakthrough for the former is undoubtedly the invention of IC in the 50 s by Jack S Kilby the Nobel Prize Laureate in Physics 2000 In an integrated circuit all components were made of the same semiconductor material Beginning with the pocket calculator in 1964 there have been many increasingly complex applications followed In fact processing gates and memory storage on a chip have since then grown at an exponential rate following Moore s Law Moore himself admitted that Moore s Law had turned out to be more accurate longer lasting and deeper in impact than he ever imagined With greater device integration various signal processing systems have been realized for many killer IT applications Further breakthroughs in computer sciences and Internet technologies have also catalyzed large scale system integration All these have led to today s IT revolution which has profound impacts on our lifestyle and overall prospect of humanity It is hard to imagine life today without mobiles or Internets The success of SPS requires a well concerted integrated approach from multiple disciplines such as device design and application *Smart Sensor Networks Using AI for Industry 4.0* Soumya Ranjan Nayak, Biswa Mohan Sahoo, Muthukumaran Malarvel, Jibitesh Mishra, 2021-10-10 Smart Sensor Networks WSNs using AI have left a mark on the lives of all by aiding in various sectors such as manufacturing education healthcare and monitoring of the environment and industries This book covers recent AI applications and explores aspects of modern sensor technologies and the systems needed to operate them The book reviews the fundamental concepts of gathering processing and analyzing different AI based models and methods It covers recent WSN techniques for the purpose of effective network management on par with the standards laid out by international organizations in related fields and focuses on both core concepts along with major applicational areas The book will be used by technical developers academicians data sciences industrial professionals researchers and students interested in the latest innovations on problem oriented processing techniques in sensor networks

using IoT and evolutionary computer applications for Industry 4.0

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

Ultra-Low Energy Wireless Sensor Networks in Practice Mauri Kuorilehto, Mikko Kohvakka, Jukka Suhonen, Panu Hämäläinen, Marko Hännikäinen, Timo D. Hamalainen, 2008-02-28 Finally a book on Wireless Sensor Networks that covers real world applications and contains practical advice Kuorilehto et al have written the first practical guide to wireless sensor networks The authors draw on their experience in the development and field testing of autonomous wireless sensor networks WSNs to offer a comprehensive reference on fundamentals practical matters limitations and solutions of this fast moving research area Ultra Low Energy Wireless Sensor Networks in Practice Explains the essential problems and issues in real wireless sensor networks and analyzes the most promising solutions Provides a comprehensive guide to applications functionality protocols and algorithms for WSNs Offers practical experiences from new applications and their field testing including several deployed networks Includes simulations and physical measurements for energy consumption bit rate latency memory and lifetime Covers embedded resource limited operating systems middleware and application software Ultra Low Energy Wireless Sensor Networks in Practice will prove essential reading for Research Scientists advanced students in Networking Electrical Engineering and Computer Science as well as Product Managers and Design Engineers

Enabling the Internet of Things Muhammad Azhar Iqbal, Sajjad Hussain, Huanlai Xing, Muhammad

Ali Imran,2020-12-10 LEARN MORE ABOUT FOUNDATIONAL AND ADVANCED TOPICS IN INTERNET OF THINGS TECHNOLOGY WITH THIS ALL IN ONE GUIDE Enabling the Internet of Things Fundamentals Design and Applications delivers a comprehensive starting point for anyone hoping to understand the fundamentals and design of Internet of Things IoT systems The book s distinguished academics and authors offer readers an opportunity to understand IoT concepts via programming in an abstract way Readers will learn about IoT fundamentals hardware and software components IoT protocol stacks security IoT applications and implementations as well as the challenges and potential solutions that lie ahead Readers will learn about the social aspects of IoT systems as well as receive an introduction to the Blockly Programming Language IoT Microcontrollers IoT Microprocessors systems on a chip and IoT Gateway Architecture The book also provides implementation of simple code examples in Packet Tracer increasing the usefulness and practicality of the book Enabling the Internet of Things examines a wide variety of other essential topics including The fundamentals of IoT including its evolution distinctions definitions vision enabling technologies and building blocks An elaboration of the sensing principles of IoT and the essentials of wireless sensor networks A detailed examination of the IoT protocol stack for communications An analysis of the security challenges and threats faced by users of IoT devices as well as the countermeasures that can be used to fight them from the perception layer to the application layer Perfect as a supplementary text for undergraduate students taking computer science or electrical engineering courses Enabling the Internet of Things also belongs on the bookshelves of industry professionals and researchers who regularly work with and on the Internet of Things and who seek a better understanding of its foundational and advanced topics **FM-UWB Transceivers for Autonomous Wireless Systems**

Nitz Saputra,John R. Long,2022-09-01 Significant research effort has been devoted to the study and realization of autonomous wireless systems for wireless sensor and personal area networking the internet of things and machine to machine communications Low power RF integrated circuits an energy harvester and a power management circuit are fundamental elements of these systems An FM UWB Transceiver for Autonomous Wireless Systems presents state of the art developments in low power FM UWB transceiver realizations The design performance and implementation of prototype transceivers in CMOS technology are presented A working hardware realization of an autonomous node that includes a prototype power management circuit is also proposed and detailed in this book Technical topics include Low complexity FM UWB modulation schemesLow power FM UWB transceiver prototypes in CMOS technologyCMOS on chip digital calibration techniquesSolar power harvester and power management in CMOS for low power RF circuitsAn FM UWB Transceiver for Autonomous Wireless Systems is an ideal text and reference for engineers working in wireless communication industries as well as academic staff and graduate students engaged in electrical engineering and communication systems research

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Introduction

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