

Wireless Ad Hoc and Sensor Networks

Management, Performance, and Applications



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Wireless Ad Hoc And Sensor Networks Management Performance And Applications

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Wireless Ad Hoc And Sensor Networks Management Performance And Applications:

Wireless Ad Hoc and Sensor Networks Jing (Selina) He, Mr. Shouling Ji, Yingshu Li, Yi Pan, 2013-08-06 Although wireless sensor networks WSNs have been employed across a wide range of applications there are very few books that emphasize the algorithm description performance analysis and applications of network management techniques in WSNs Filling this need *Wireless Ad Hoc and Sensor Networks Management Performance and Applications* summarizes not only traditional and classical network management techniques but also state of the art techniques in this area The articles presented are expository but scholarly in nature including the appropriate history background a review of current thinking on the topic and a discussion of unsolved problems The book is organized into three sections Section I introduces the basic concepts of WSNs and their applications followed by the summarization of the network management techniques used in WSNs Section II begins by examining virtual backbone based network management techniques It points out some of the drawbacks in classical and existing methods and proposes several new network management techniques for WSNs that can address the shortcomings of existing methods Each chapter in this section examines a new network management technique and includes an introduction literature review network model algorithm description theoretical analysis and conclusion Section III applies proposed new techniques to some important applications in WSNs including routing data collection data aggregation and query processing It also conducts simulations to verify the performance of the proposed techniques Each chapter in this section examines a particular application using the following structure brief application overview application design and implementation performance analysis simulation settings and comments for different test cases scenario configurations

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

Ad-hoc Networks and Wireless Miguel Garcia Pineda, Jaime Lloret, Symeon Papavassiliou, Stefan Ruehrup, Carlos Becker Westphall, 2015-02-09 This book constitutes the refereed proceedings of six workshops collocated with the 13th International Conference on Ad Hoc Networks and Wireless ADHOC NOW Workshops 2014 held in Benidorm Spain in June 2014 The 25 revised full papers presented were carefully reviewed and selected from 59 submissions The papers address the following topics emerging technologies for smart devices marine sensors and systems multimedia wireless ad hoc networks security in ad hoc networks smart sensor protocols and algorithms wireless sensor actuator and robot networks

Energy Efficient Cooperative Wireless Communication and Networks Zhengguo Sheng, Chi Harold Liu, 2014-11-11 Compared with conventional communications cooperative communication allows multiple users in a wireless network to coordinate their packet transmissions and share each other's resources thus achieving high performance gain and better service coverage and reliability *Energy Efficient Cooperative Wireless Communication and Networks* provides a comp

Complex Networks Kayhan Erciyes, 2014-09-06 Complex

Networks An Algorithmic Perspective supplies the basic theoretical algorithmic and graph theoretic knowledge needed by every researcher and student of complex networks This book is about specifying classifying designing and implementing mostly sequential and also parallel and distributed algorithms that can be used to analyze the static properties of complex networks Providing a focused scope which consists of graph theory and algorithms for complex networks the book identifies and describes a repertoire of algorithms that may be useful for any complex network Simulation Technologies in

Networking and Communications Al-Sakib Khan Pathan,Muhammad Mostafa Monowar,Shafiullah Khan,2014-11-06

Simulation is a widely used mechanism for validating the theoretical model of networking or communication systems Although the claims made based on simulations are considered to be reliable how reliable they really are is best determined with real world implementation trials This book addresses various issues covering different mechanisms related to simulation technologies in networking and communications fields Focusing on the practice of simulation testing instead of the theory it reviews and evaluates popular simulation modeling tools and recommends the best tools for specific tests Power Efficiency in Broadband Wireless Communications Pooria Varahram,Somayeh Mohammady,Borhanuddin Mohd Ali,Nasri Sulaiman,2014-08-29 Power Efficiency in Broadband Wireless Communications focuses on the improvement of power efficiency in wireless communication systems especially of mobile devices Reviewing cutting edge techniques for conserving power and boosting power efficiency the book examines various technologies and their impact on consumer devices It considers each technology first by introducing the main physical layer components in recent wireless communication systems along with their shortcomings and then proposing solutions for overcoming these shortcomings The book covers orthogonal frequency division multiplexing OFDM signal generation and formulation and examines the advantages and disadvantages of OFDM systems compared to alternative multiplexing It introduces one of the main drawbacks of OFDM systems peak to average power ratio PAPR and discusses several PAPR techniques It also explains how to overcome the main drawbacks of real world OFDM system applications Considers power amplifier linearization for increasing power efficiency and reducing system costs and power dissipation Describes the implementation scenario of the most promising linearization technique digital predistortion Presents some experimental demonstrations of digital predistortion when the device under test is in the loop Because the most costly device in a communication system that has a direct impact on power efficiency and power consumption is the power amplifier the book details the behavior and characteristics of different classes of power amplifiers Describing the evolution of the mobile cellular communication system it details a cost effective technique to help you increase power efficiency reduce system costs and prolong battery life in next generation mobile devices Multimedia over Cognitive Radio Networks Fei Hu,Sunil Kumar,2014-12-04 With nearly 7 billion mobile phone subscriptions worldwide mobility and computing have become pervasive in our society and business Moreover new mobile multimedia communication services are challenging telecommunication operators To support the significant increase in multimedia traffic especially

video over wireless networks new technological infrastructure must be created Cognitive Radio Networks CRNs are widely regarded as one of the most promising technologies for future wireless communications This book explains how to efficiently deliver video audio and other data over CRNs Covering advanced algorithms protocols and hardware software based experiments this book describes how to encode video in a prioritized way to send to dynamic radio links It discusses different FEC codes for video reliability and explains how different machine learning algorithms can be used for video quality control It also explains how to use readily available software tools to build a CRN simulation model This book explains both theoretical and experimental designs It describes how universal software radio peripheral USRP boards can be used for real time high resolution video transmission It also discusses how a USRP board can sense the spectrum dynamics and how it can be controlled by GNU Radio software A separate chapter discusses how the network simulator ns 2 can be used to build a simulated CRN platform

Information Processing in Sensor Networks Feng Zhao,2003-04-10 This book constitutes the refereed proceedings of the Second International Workshop on Information Processing in Sensor Networks IPSN 2003 held in Palo Alto CA USA in April 2003 The 23 revised full papers and 21 revised poster papers presented were carefully reviewed and selected from 73 submissions Among the topics addressed are wireless sensor networks query processing decentralized sensor platforms distributed databases distributed group management sensor network design collaborative signal processing adhoc sensor networks distributed algorithms distributed sensor network control sensor network resource management data service middleware random sensor networks mobile agents target tracking sensor network protocols large scale sensor networks and multicast

Distributed Sensor Networks S. Sitharama Iyengar,Richard R. Brooks,2016-04-19 The best selling Distributed Sensor Networks became the definitive guide to understanding this far reaching technology Preserving the excellence and accessibility of its predecessor Distributed Sensor Networks Second Edition once again provides all the fundamentals and applications in one complete self contained source Ideal as a tutorial for

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 **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 **Smart Infrastructure and**

Applications Rashid Mehmood, Simon See, Iyad Katib, Imrich Chlamtac, 2019-06-20 This book provides a multidisciplinary view of smart infrastructure through a range of diverse introductory and advanced topics The book features an array of subjects that include smart cities and infrastructure e healthcare emergency and disaster management Internet of Vehicles supply chain management eGovernance and high performance computing The book is divided into five parts Smart Transportation Smart Healthcare Miscellaneous Applications Big Data and High Performance Computing and Internet of Things IoT Contributions are from academics researchers and industry professionals around the world Features a broad mix of topics related to smart infrastructure and smart applications particularly high performance computing big data and artificial intelligence Includes a strong emphasis on methodological aspects of infrastructure technology and application development Presents a substantial overview of research and development on key economic sectors including healthcare and transportation *Artificial Intelligence Applications and Innovations* Ilias Maglogiannis, Kostas Karpouzis, 2006-08-29

Artificial Intelligence applications build on a rich and proven theoretical background to provide solutions to a wide range of real life problems The ever expanding abundance of information and computing power enables researchers and users to tackle highly interesting issues for the first time such as applications providing personalized access and interactivity to multimodal information based on preferences and semantic concepts or human machine interface systems utilizing information on the affective state of the user The purpose of the 3rd IFIP Conference on Artificial Intelligence Applications and Innovations AIAI is to bring together researchers engineers and practitioners interested in the technical advances and business and industrial applications of intelligent systems AIAI 2006 is focused on providing insights on how AI can be implemented in real world applications **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.

Sensor Network Protocols Imad Mahgoub, Mohammad Ilyas, 2018-10-08. Sensor networks continue to grow in importance for modern communication networks. Communication protocols are at the core of these networks, determining their ability to function, their capabilities, and the environments in which they are able to operate. In chapters carefully selected from the popular Handbook of Sensor Networks, Sensor Network Protocols supplies a sharply focused reference on protocols, security, data processing, and energy management in communication sensor networks that is ideal for specialists in the field. Providing a succinct guide to the protocols currently used in advanced sensor networks, this book focuses on four main areas: routing protocols, data gathering and processing, security and reliability, and energy management. The book opens with a survey of the challenges and opportunities facing the field. Then expert contributors authoritatively discuss routing technologies, next-generation enabling technologies, comparative study of energy-efficient protocols for wireless sensor networks, techniques to reduce computation and communication energy consumption, energy-aware routing, localized algorithms for sensor networks, and much more. Sensor Network Protocols details the techniques and technologies that are at the heart of modern sensor networks. It is an ideal reference for anyone interested in designing, planning, or building emerging sensor and communications networks.

Proceedings of Ninth International Congress on Information and Communication Technology Xin-She Yang, Simon Sherratt, Nilanjan Dey, Amit Joshi, 2024-08-09. This book gathers selected high-quality research papers presented at the Ninth International Congress on Information and Communication Technology held in London on February 19-22, 2024. It discusses emerging topics pertaining to information and communication technology (ICT) for managerial applications, e-governance, e-agriculture, e-education, and computing technologies, the Internet of Things (IoT), and e-mining. Written by respected experts and researchers working on ICT, the book offers an asset for young researchers involved in advanced studies. The work is presented in ten volumes.

Smart Dust Mohammad Ilyas, Imad

Mahgoub,2018-10-03 Sensor networks continue to grow in importance for modern communication networks The fruit of recent efforts aimed at miniaturization and highly advanced functionality smart dust sensor networks offer powerful cost effective solutions to densely distributed high resolution applications In chapters carefully selected from the popular Handbook of Sensor Networks Smart Dust Sensor Network Applications Architecture and Design supplies a sharply focused reference on the applications design and performance of smart dust that is ideal for specialists in the field Providing a succinct survey of the principles and technologies associated with smart dust networks this book focuses on eight main areas applications architecture protocols tracking technologies data gathering and processing energy management security reliability and fault tolerance and performance and design aspects Following a look at the opportunities and challenges facing the field expert contributors authoritatively cover sensor network management miniaturizing sensor networks with MEMS sensor network architecture energy efficient technologies positioning and tracking comparison of cooperative computing in sensor networks dynamic power management low power design for smart dust networks and more Smart Dust Sensor Network Applications Architecture and Design details the applications and technologies that are at the frontier of modern sensor networks It is an ideal reference for anyone interested in designing planning or building emerging sensor and communications networks Handbook of Sensor Networks Mohammad Ilyas,Imad Mahgoub,2004-07-28

As the field of communications networks continues to evolve the challenging area of wireless sensor networks is rapidly coming of age Recent advances have made it possible to make sensor components more compact robust and energy efficient than ever earning the idiosyncratic alias of Smart Dust Production has also improved yielding larger **Green Machine Learning Protocols for Future Communication Networks** Saim Ghafoor,Mubashir Husain Rehmani,2023-10-25 Machine learning has shown tremendous benefits in solving complex network problems and providing situation and parameter prediction However heavy resources are required to process and analyze the data which can be done either offline or using edge computing but also requires heavy transmission resources to provide a timely response The need here is to provide lightweight machine learning protocols that can process and analyze the data at run time and provide a timely and efficient response These algorithms have grown in terms of computation and memory requirements due to the availability of large data sets These models algorithms also require high levels of resources such as computing memory communication and storage The focus so far was on producing highly accurate models for these communication networks without considering the energy consumption of these machine learning algorithms For future scalable and sustainable network applications efforts are required toward designing new machine learning protocols and modifying the existing ones which consume less energy i e green machine learning protocols In other words novel and lightweight green machine learning algorithms protocols are required to reduce energy consumption which can also reduce the carbon footprint To realize the green machine learning protocols this book presents different aspects of green machine learning for future communication networks This book

highlights mainly the green machine learning protocols for cellular communication federated learning based models and protocols for Beyond Fifth Generation networks approaches for cloud based communications and Internet of Things This book also highlights the design considerations and challenges for green machine learning protocols for different future applications

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Table of Contents Wireless Ad Hoc And Sensor Networks Management Performance And Applications

1. Understanding the eBook Wireless Ad Hoc And Sensor Networks Management Performance And Applications
 - The Rise of Digital Reading Wireless Ad Hoc And Sensor Networks Management Performance And Applications
 - Advantages of eBooks Over Traditional Books
2. Identifying Wireless Ad Hoc And Sensor Networks Management Performance And Applications
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Wireless Ad Hoc And Sensor Networks Management Performance And Applications
 - User-Friendly Interface
4. Exploring eBook Recommendations from Wireless Ad Hoc And Sensor Networks Management Performance And Applications
 - Personalized Recommendations
 - Wireless Ad Hoc And Sensor Networks Management Performance And Applications User Reviews and Ratings
 - Wireless Ad Hoc And Sensor Networks Management Performance And Applications and Bestseller Lists
5. Accessing Wireless Ad Hoc And Sensor Networks Management Performance And Applications Free and Paid eBooks
 - Wireless Ad Hoc And Sensor Networks Management Performance And Applications Public Domain eBooks
 - Wireless Ad Hoc And Sensor Networks Management Performance And Applications eBook Subscription Services
 - Wireless Ad Hoc And Sensor Networks Management Performance And Applications Budget-Friendly Options
6. Navigating Wireless Ad Hoc And Sensor Networks Management Performance And Applications eBook Formats
 - ePub, PDF, MOBI, and More
 - Wireless Ad Hoc And Sensor Networks Management Performance And Applications Compatibility with Devices
 - Wireless Ad Hoc And Sensor Networks Management Performance And Applications Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Wireless Ad Hoc And Sensor Networks Management Performance And Applications

- Highlighting and Note-Taking Wireless Ad Hoc And Sensor Networks Management Performance And Applications
- Interactive Elements Wireless Ad Hoc And Sensor Networks Management Performance And Applications
- 8. Staying Engaged with Wireless Ad Hoc And Sensor Networks Management Performance And Applications
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Wireless Ad Hoc And Sensor Networks Management Performance And Applications
- 9. Balancing eBooks and Physical Books Wireless Ad Hoc And Sensor Networks Management Performance And Applications
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Wireless Ad Hoc And Sensor Networks Management Performance And Applications
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Wireless Ad Hoc And Sensor Networks Management Performance And Applications
 - Setting Reading Goals Wireless Ad Hoc And Sensor Networks Management Performance And Applications
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Wireless Ad Hoc And Sensor Networks Management Performance And Applications
 - Fact-Checking eBook Content of Wireless Ad Hoc And Sensor Networks Management Performance And Applications
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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