

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

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

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.

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 comprehensive look at energy efficiency and system design of cooperative wireless communication. Introducing effective cooperative wireless communication schemes, the book supplies the understanding and methods required to improve energy efficiency, reliability, and end-to-end protocol designs for wireless communication systems. It explains the practical benefits and limitations of cooperative transmissions along with the associated designs of upper layer protocols, including MAC, routing, and transport protocol. The book considers power efficiency as a main objective in cooperative communication to ensure quality of service (QoS) requirements. It explains how to bring the performance gain at the physical layer up to the network layer and how to allocate network resources dynamically through MAC scheduling and routing to trade off the performance benefits of given transmissions against network costs. Because the techniques detailed in each chapter can help readers achieve energy efficiency and reliability in wireless networks, they have the potential to impact a range of industry areas, including wireless communication, wireless sensor networks, and ad hoc networks. The book includes numerous examples, best practices, and models that capture key issues in real world applications. Along with algorithms and tips for effective design, the book supplies the understanding you will need to achieve high performing and energy efficient wireless networks with improved service coverage and reliability.

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.

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

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

Ad-Hoc, Mobile, and Wireless Networks Maria Rita Palattella, Stefano Scanzio, Sinem Coleri Ergen, 2019-09-25 This book constitutes the refereed proceedings of the 18th International Conference on Ad Hoc Mobile and Wireless Networks, ADHOC NOW 2019, held in Luxembourg in October 2019. The 37 full and 10 short papers presented were carefully reviewed and selected from 64 submissions. The papers provide an in-depth and stimulating view on the new frontiers in the field of mobile ad hoc and wireless computing. They are organized in the following topical sections: IoT for emergency and disaster management; scheduling and synchronization in WSN; routing strategies for WSN; LPWANs and their integration with satellite; performance improvement of wireless and sensor networks; optimization schemes for increasing sensors' lifetime; vehicular and UAV networks; body area networks; IoT security and standardization.

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

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usa später auch international

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