

Wireless Personal Area Networks

Performance, Interconnections and Security
with IEEE 802.15.4



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Wireless Personal Area Networks Performance Interconnection And Security With Ieee 802154

Azzedine Boukerche



Wireless Personal Area Networks Performance Interconnection And Security With Ieee 802154:

Wireless Personal Area Networks Jelena Masic,Vojislav Masic,2008-02-28 Wireless Personal Area Networks provides an in depth analysis of the recent IEEE 802 15 4 standard for low data rate wireless personal area networks LR WPANs including suggestions to improve performance and comparisons with the related 802 15 1 Bluetooth standard It assesses the suitability of the standard for the development and deployment of wireless sensor networks as well as providing guidance and insight into the relative advantages and disadvantages of various performance solutions Wireless Personal Area Networks Provides a comprehensive in depth look at the issues surrounding WPAN network operation and performance Investigates multi cluster networks and compares how they can be implemented Analyzes the performance of a single cluster under different traffic and power management regimes including uplink vs downlink traffic acknowledged vs unacknowledged traffic saturation vs non saturation and the like Discusses security issues in WPANs such as different security threats their impact on performance standard security mechanisms and security policies Compares the IEEE 802 15 4 standard with the related Bluetooth IEEE 802 15 1 standard in terms of suitability for implementing wireless sensor networks This reference is a valuable tool for developers and researchers getting acquainted with various aspects of IEEE 802 15 4 technology Graduate students studying courses such as Performance Evaluation Wireless Sensor Networks and Queuing Theory will also find this book very insightful *The Future of Wireless Networks* Moheesen Guizani,Hsiao-Hwa Chen,Chonggang Wang,2015-09-22 The exponential increase in mobile device users and high bandwidth applications has pushed the current 3G and 4G wireless networks to their capacity Moreover it is predicted that mobile data traffic will continue to grow by over 300 percent by 2017 To handle this spectacular growth the development of improved wireless networks for the future has

Handbook of Security and Networks Yang Xiao, Frank Haizhon Li, Hui Chen, 2011 This valuable handbook is a comprehensive compilation of state of art advances on security in computer networks More than 40 internationally recognized authorities in the field of security and networks contribute articles in their areas of expertise These international researchers and practitioners are from highly respected universities renowned research institutions and IT companies from all over the world Each self contained chapter covers one essential research topic on security in computer networks Through the efforts of all the authors all chapters are written in a uniformed style each containing which contains a comprehensive overview the latest pioneering work and future research direction of a research topic Digital Home Networking Romain Carbou, Michel Diaz, Ernesto Exposito, Rodrigo Roman, 2013-05-06 In an era of ubiquity nomadism and ecological challenge the maturity of wireless technologies the readiness of broadband Internet access and the popularity of smart terminals should contribute to emancipating IT services in connection with the home and home based resources This book in light of several years of applied research and technological surveys aims at describing the digital home networking environment its techniques and the challenges around its service architecture Digital Home Networking aims to provide a

broad introduction to state of the art digital home standards and protocols as well as an in depth description of service architectures for entertainment and domotic services involving digital home resources The book covers aspects such as networking remote access security interoperability scalability and Quality of Service Notably it describes the generic architecture which was proposed and developed in the context of the EUREKA Celtic research project Feel Home

Multimedia and Ubiquitous Engineering James J. (Jong Hyuk) Park, Joseph Kee-Yin Ng, Hwa-Young Jeong, Borgy Waluyo, 2014-01-31 The new multimedia standards for example MPEG 21 facilitate the seamless integration of multiple modalities into interoperable multimedia frameworks transforming the way people work and interact with multimedia data These key technologies and multimedia solutions interact and collaborate with each other in increasingly effective ways contributing to the multimedia revolution and having a significant impact across a wide spectrum of consumer business healthcare education and governmental domains Multimedia and Ubiquitous Engineering provides an opportunity for academic and industry professionals to discuss recent progress in the area of multimedia and ubiquitous environment including models and systems new directions novel applications associated with the utilization and acceptance of ubiquitous computing devices and systems Intersection of Artificial Intelligence, Data Science, and Cutting-Edge Technologies: From Concepts to Applications in Smart Environment Yousef Farhaoui, Tutut Herawan, Agbotiname Lucky Imoize, Ahmad El Allaoui, 2025-06-30 Offering a comprehensive exploration this book navigates through foundational concepts to advanced applications providing readers with a holistic understanding of how these domains intersect to create intelligent and responsive environments The Intersection of Artificial Intelligence Data Science and Cutting Edge Technologies From Concepts to Applications in Smart Environments delves into the convergence of AI data science and innovative technologies within the realm of smart environments Through a blend of theoretical insights and practical examples the book illuminates the synergies between AI and data science showcasing their pivotal roles in shaping the future of smart environments From sensor technologies to machine learning algorithms the text elucidates the mechanisms driving intelligence in these environments while also delving into the ethical considerations and societal impacts of deploying such technologies Whether you re a researcher practitioner or enthusiast in the fields of AI data science or smart environments this book serves as a guiding beacon offering valuable insights and methodologies to navigate the complexities of creating and optimizing intelligent environments for the benefit of society **Handbook of Communications Security** F. Garzia, 2013 Communications represent a strategic sector for privacy protection and for personal company national and international security The interception damage or lost of information during communication can generate material and non material economic damages from both a personal and collective point of view The purpose of this book is to give the reader information relating to all aspects of communications security beginning at the base ideas and building to reach the most advanced and updated concepts The book will be of interest to integrated system designers telecommunication designers

system engineers system analysts security managers technicians intelligence personnel security personnel police army private investigators scientists graduate and postgraduate students and anyone that needs to communicate in a secure way

Modelling the Wireless Propagation Channel Fernando P rez Font n, Perfecto Mari o Espi eira, 2008-09-09 A practical tool for propagation channel modeling with MATLAB simulations Many books on wireless propagation channel provide a highly theoretical coverage which for some interested readers may be difficult to follow This book takes a very practical approach by introducing the theory in each chapter first and then carrying out simulations showing how exactly put the theory into practice The resulting plots are analyzed and commented for clarity and conclusions are drawn and explained from the obtained results Key features include A unique approach to propagation channel modeling with accompanying MATLAB simulations to demonstrate the theory in practice Contains step by step commentary and analysis of the obtained simulation results in order to provide a comprehensive and structured learning tool Covers a wide range of topics including shadowing effects coverage and interference Multipath Narrowband channel Multipath Wideband channel propagation in micro and pico cells the land mobile satellite LMS channel the directional Multipath channel and MIMO and propagation effects in fixed radio links terrestrial and satellite The book comes with an accompanying website that contains the MATLAB simulations and allows readers to try them out themselves Well suited for lab use as reference and as a self learning tool both for advanced students and professionals Modeling the Wireless Propagation Channel A simulation approach with MATLAB will be best suited for postgraduate Masters and PhD students and practicing engineers in telecommunications and electrical engineering fields who are seeking to familiarise themselves with the topic without too many formulas The book will also be of interest to network engineers system engineers and researchers

Satellite Communications Systems Engineering

Louis J. Ippolito, 2008-10-13 This book presents and analyzes all atmospheric effects of importance for today s satellite systems and discusses the tools needed for designing the links and evaluating system performance It serves as an excellent reference for communications engineers wireless network and system engineers system designers and graduate students in satellite communications and related fields Jacket

Introduction to Wireless Digital Communication Robert W. Heath Jr., 2017-04-04 The Accessible Guide to Modern Wireless Communication for Undergraduates Graduates and Practicing Electrical Engineers Wireless communication is a critical discipline of electrical engineering and computer science yet the concepts have remained elusive for students who are not specialists in the area This text makes digital communication and receiver algorithms for wireless communication broadly accessible to undergraduates graduates and practicing electrical engineers Notably the book builds on a signal processing foundation and does not require prior courses on analog or digital communication Introduction to Wireless Digital Communication establishes the principles of communication from a digital signal processing perspective including key mathematical background transmitter and receiver signal processing algorithms channel models and generalizations to multiple antennas Robert Heath s less is more approach focuses on typical solutions to

common problems in wireless engineering Heath presents digital communication fundamentals from a signal processing perspective focusing on the complex pulse amplitude modulation approach used in most commercial wireless systems He describes specific receiver algorithms for implementing wireless communication links including synchronization carrier frequency offset estimation channel estimation and equalization While most concepts are presented for systems with single transmit and receive antennas Heath concludes by extending those concepts to contemporary MIMO systems To promote learning each chapter includes previews bullet point summaries examples and numerous homework problems to help readers test their knowledge Basics of wireless communication applications history and the central role of signal processing Digital communication essentials components channels distortion coding decoding encryption and modulation demodulation Signal processing linear time invariant systems probability random processes Fourier transforms derivation of complex baseband signal representation and equivalent channels and multi rate signal processing Least squared estimation techniques that build on the linear algebra typically taught to electrical engineering undergraduates Complex pulse amplitude modulation symbol mapping constellations signal bandwidth and noise Synchronization including symbol frame and carrier frequency offset Frequency selective channel estimation and equalization MIMO techniques using multiple transmit and or receive antennas including SIMO MISO and MIMO OFDM Register your product at informit com register for convenient access to downloads updates and corrections as they become available Cognitive Informatics and Soft Computing Pradeep Kumar

Mallick,Akash Kumar Bhoi,Gonçalo Marques,Victor Hugo C. de Albuquerque,2021-07-01 This book presents best selected research papers presented at the 3rd International Conference on Cognitive Informatics and Soft Computing CISC 2020 held at Balasore College of Engineering Technology Balasore Odisha India from 12 to 13 December 2020 It highlights in particular innovative research in the fields of cognitive informatics cognitive computing computational intelligence advanced computing and hybrid intelligent models and applications New algorithms and methods in a variety of fields are presented together with solution based approaches The topics addressed include various theoretical aspects and applications of computer science artificial intelligence cybernetics automation control theory and software engineering **Algorithms and Protocols for Wireless and Mobile Ad Hoc Networks** Azzedine Boukerche,2009 Focuses on several aspects of wireless ad hoc networks particularly algorithmic methods and distributed computing with mobility and computation capability This book provides the crucial building foundation for the design and construction of the future generation of ad hoc networks

IEEE Standard for Local and Metropolitan Area Networks ,2011 Abstract The protocol and compatible interconnection for data communication devices using low data rate low power and low complexity short range radio frequency RF transmissions in a wireless personal area network WPAN were defined in IEEE Std 802 15 4 2006 In this revision the market applicability of IEEE Std 802 15 4 is extended the ambiguities in the standard are removed and the improvements learned from implementations of IEEE Std 802 15 4 2006 are included Keywords ad hoc network IEEE 802 15

4 low data rate low power LR WPAN mobility PAN personal area network radio frequency RF short range wireless wireless personal area network WPAN Link Layer Security in Wireless LANs, Wireless PANs, and Wireless MANs Yang Xiao,2007-01 This textbook offers a unique presentation of link layer security issues in wireless local area networks WLANs wireless personal area networks WPANs and wireless metropolitan area networks WMANs The book provides a state of art survey on link layer security issues in IEEE 802 wireless standards such as IEEE 802 11 WLAN IEEE 802 15 1 Bluetooth IEEE 802 15 3 UWB IEEE 802 15 4 Sensor network and IEEE 802 16 WMAN The book will also be useful as a reference for researchers who wish to gain a greater understanding of wireless security without having to extract the information from the IEEE 802 standards themselves **Energy Efficient Spectrum Resources Usage in WPANs** Fernando José Velez,Luís Miguel Borges,Norberto Barroca,Periklis Chatzimisios,2023-01-31 Wireless Sensor Networks WSNs and the Internet of Things are facing tremendous advances both in terms of energy efficiency as well as in the number of available applications Consequently there are challenges that need to be tackled for the future generation of WSNs After giving an overview of the WSN protocols and IEEE 802 15 4 standard this book proposes IEEE 802 15 4 Medium Access Control MAC sub layer performance enhancements by employing not only RTS CTS combined with packet concatenation but also scheduled channel polling MC SCP Results have shown that the use of the RTS CTS mechanism improves channel efficiency by decreasing the deferral time before transmitting a data packet Furthermore the Sensor Block Acknowledgment MAC SBACK MAC protocol enables more efficiency as it allows the aggregation of several acknowledgement responses in one special Block Acknowledgment BACK Response packet The throughput and delay performance have been mathematically derived under both ideal conditions a channel environment with no transmission errors and non ideal conditions with transmission errors Simulation results successfully validate the proposed analytical models This research reveals the importance of an appropriate design for the MAC sub layer protocol for the desired WSN application Depending on the mission of the WSN application different protocols are required Therefore the overall performance of a WSN application certainly depends on the development and application of suitable e g MAC network layer protocols *802.11 Wireless Networks* Alan Holt,Chi-Yu Huang,2010-06-25 This unique and practical text introduces the principles of WLANs based upon the IEEE 802 11 standards demonstrating how to configure equipment in order to implement various network solutions The text is supported by examples and detailed instructions **Performance Study on IEEE 802.11 Wireless Local Area Network Security** Nedier Janvier Senat,2006 **Emerging Wireless LANs, Wireless PANs, and Wireless MANs** Yang Xiao,Yi Pan,2009-03-27 This book introduces and explains current and emerging IEEE 802 wireless standards drafts to readers including IEEE wireless standards Wireless LANs Wireless PANs and Wireless MANs It also provides information on MAC medium Access control and the Physical layer protocols for all these standards drafts with an emphasis on channel access and power management Handbook of Wireless Local Area Networks Mohammad Ilyas,Syed A. Ahson,2005-05-25

Consisting of 25 articles contributed by expert authors from around the world this handbook begins with a detailed introduction that provides an overview of LAN technologies performance security and security protocols It then delves further into WLAN technology covering space time processing WLAN and cellular convergence and a peer to peer approach to roaming along with other topics The Handbook continues by exploring WLAN applications followed by an extensive discussion of security that includes the steps that can be taken to minimize WLAN security risks This text concludes with an analysis of standards describing 3G UMTS IEEE 802 11b internetworking and security **IEEE Standard for Local and Metropolitan Area Networks--Part 15.4** ,2012

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