

Wireless Network Performance Enhancement via Directional Antennas

Models, Protocols, and Systems



Edited by
John D. Matyjas • Fei Hu • Sunil Kumar

Wireless Network Performance Enhancement Via Directional Antennas Models Protocols And Systems

JR Anderson



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Wireless Network Performance Enhancement via Directional Antennas: Models, Protocols, and Systems John D. Matyjas, Fei Hu, Sunil Kumar, 2015-11-18 Directional antenna technologies have made significant advancements in the last decade. These advances have opened the door to many exciting new design opportunities for wireless networks to enhance quality of service, QoS performance, and network capacity. In this book, experts from around the world present the latest research and development in **Wireless Network Performance Enhancement via Directional Antennas: Models, Protocols, and Systems** John D. Matyjas, Fei Hu, Sunil Kumar, 2015-11-18 Directional antenna technologies have made significant advancements in the last decade. These advances have opened the door to many exciting new design opportunities for wireless networks to enhance quality of service, QoS performance, and network capacity. In this book, experts from around the world present the latest research and development in *Introduction to Radio Engineering* Nathan Blaunstein, Christos Christodoulou, Mikhail Sergeev, 2016-10-14 The book introduces the basic foundations of high mathematics and vector algebra. Then it explains the basic aspects of classical electrodynamics and electromagnetism. Based on such knowledge, readers investigate various radio propagation problems related to guiding structures connecting electronic devices with antenna terminals placed at the different radar systems. It explains the role of antennas in the process of transmission of radio signals between the terminals. Finally, it shows the relation between the main operational characteristics of each kind of radar and the corresponding knowledge obtained from the previous chapters. **Handbook on Session Initiation Protocol** Radhika Ranjan Roy, 2018-09-03 Session Initiation Protocol (SIP) standardized by the Internet Engineering Task Force (IETF) has emulated the simplicity of the protocol architecture of hypertext transfer protocol (HTTP) and is being popularized for VoIP over the Internet because of the ease with which it can be meshed with web services. However, it is difficult to know exactly how many requests for comments (RFCs) have been published over the last two decades in regards to SIP or how those RFCs are interrelated. **Handbook on Session Initiation Protocol Networked Multimedia Communications for IP Telephony** solves that problem. It is the first book to put together all SIP-related RFCs with their mandatory and optional texts in a chronological and systematic way so that it can be used as a single super SIP RFC with an almost one-to-one integrity from beginning to end, allowing you to see the big picture of SIP for the basic SIP functionalities. It is a book that network designers, software developers, product manufacturers, implementers, interoperability testers, professionals, professors, and researchers will find to be very useful. The text of each RFC from the IETF has been reviewed by all members of a given working group, made up of world-renowned experts, and a rough consensus made on which parts of the drafts need to be mandatory and optional, including whether an RFC needs to be Standards Track, Informational, or Experimental Texts. ABNF syntaxes, figures, tables, and references are included in their original form. All RFCs along with their authors are provided as references. The book is organized into twenty chapters based on the major functionalities, features, and capabilities of SIP.

Spectrum Sharing in Wireless Networks John D. Matyjas, Sunil Kumar, Fei Hu, 2016-11-17 Spectrum Sharing in Wireless Networks Fairness Efficiency and Security provides a broad overview of wireless network spectrum sharing in seven distinct sections The first section examines the big picture and basic principles explaining the concepts of spectrum sharing hardware software function requirements for efficient sharing and future trends of sharing strategies The second section contains more than 10 chapters that discuss differing approaches to efficient spectrum sharing The authors introduce a new coexistence and sharing scheme for multi hop networks describe the space time sharing concept introduce LTE U and examine sharing in broadcast and unicast environments They then talk about different cooperation strategies to achieve mutual benefits for primary users PU and secondary users SU discuss protocols in a spectrum sharing context and provide different game theory models between PUs and SUs The third section explains how to model the interactions of PUs and SUs using an efficient calculation method to determine spectrum availability Additionally this section explains how to use scheduling models to achieve efficient SU traffic delivery The subject of the fourth section is MIMO oriented design It focuses on how directional antennas and MIMO antennas greatly enhance wireless network performance The authors include a few chapters on capacity rate calculations as well as beamforming issues under MIMO antennas Power control is covered in the fifth section which also describes the interference aware power allocation schemes among cognitive radio users and the power control schemes in cognitive radios The sixth section provides a comprehensive look at security issues including different types of spectrum sharing attacks and threats as well as corresponding countermeasure schemes The seventh and final section covers issues pertaining to military applications and examines how the military task protects its data flows when sharing the spectrum with civilian applications

Opportunities in 5G Networks Fei Hu, 2016-03-30 Opportunities in 5G Networks A Research and Development Perspective uniquely focuses on the R D technical design of 5th generation 5G networks It is written and edited by researchers and engineers who are world renown experts in the design of 5G networks The book consists of four sections The first section explains what 5G is what its re

2001 MILCOM, 2001 **IEICE Transactions on Electronics**, 2004 **Dissertation Abstracts International**, 2007 Cross Layer Optimizations for Performance Enhancement of Wireless Networks Tarun Joshi, 2006 In this dissertation we focus on designing several cross layer optimizations to boost the performance of wireless networks We categorize our efforts into two directions a improvement of spatial reusability and multi hop performance via Directional Antennas and b analysis and optimization of the IEEE 802 11 multi rate networks Since existing protocols are incapable of fully exploiting the benefits of a directional antenna system we propose a broadcast and routing protocol for such systems All our proposals assume cross layer interaction between the Network MAC and PHY layers Next we analyze multi rate networks in the context of IEEE 802 11 DCF networks and propose an analytical model to study the link delay characteristics of such systems We then propose an online algorithm Time Fair CSMA TFCSMA for guaranteeing air time fairness and thereby mitigating the recently observed

rate anomaly problem of IEEE DCF multi rate networks Following the design of TFCSMA we concentrate on the problem of rate adaptation for time varying wireless channels We thoroughly investigate the impact of transmission rate on the performance of a wireless link We then propose Stochastic Automata Rate Adaptation Algorithm SARA SARA is inspired by Stochastic Learning Automata SLA a machine learning technique for adaptation in random environments As opposed to the previous work in this area SARA is ideally suited for both stationary and non stationary channel environments and is completely compatible with the existing IEEE 802.11 MAC standard

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Mobile Ad Hoc Networks George Aggelou,2005 This is a detailed tutorial on the design and integration of mobile ad hoc networks temporary communications nets constructed on the fly for locations and situations where building a permanent installation isn't possible

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