Eldad Perahia and **Robert Stacey**

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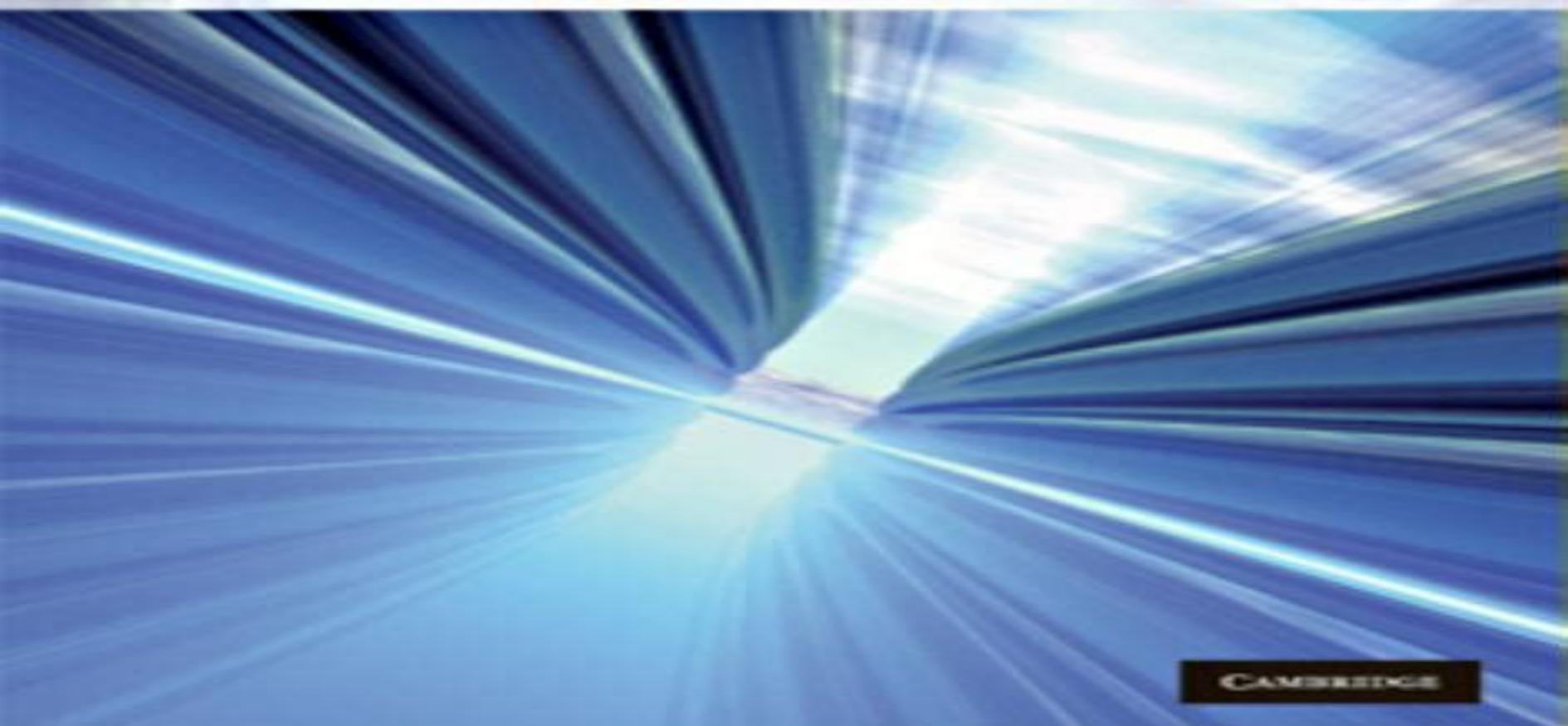
Throughput, Robustness, and Reliability in 802.11n

Next Generation Wireless Lans Throughput Robustness And Reliability In 80211n

Eldad Perahia,Robert Stacey

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   Next Generation Wireless LANs Eldad Perahia,Robert Stacey,2008-08-28 If you ve been searching for a way to get up to speed quickly on IEEE 802 11n without having to wade through the entire standard then look no further This comprehensive overview describes the underlying principles implementation details and key enhancing features of 802 11n A detailed discussion of the key throughput robustness and reliability enhancing features such as MIMO 40 MHz channels and packet aggregation is given in addition to a clear summary of the issues surrounding legacy interoperability and coexistence Advanced topics such as beamforming and fast link adaption are also covered With numerous MAC and physical layer examples and simulation results included to highlight the benefits of the new features this is an ideal reference for designers of WLAN equipment and network managers whose systems adopt the new standard It is also a useful distillation of 802 11n technology for graduate students and researchers in the field of wireless communication   Next Generation Wireless LANs Eldad Perahia,Robert Stacey,2013-05-23 A new edition of the most comprehensive and up to date overview of the features of the 802 11n and 802 11ac WLAN standards   **Next Generation Wireless LANs** Eldad Perahia,Robert Stacey,2013-05-23 If you ve been searching for a way to get up to speed on IEEE 802 11n and 802 11ac WLAN standards without having to wade through the entire specification then look no further This comprehensive overview describes the underlying principles implementation details and key enhancing features of 802 11n and 802 11ac For many of these features the authors outline the motivation and history behind their adoption into the standard A detailed discussion of key throughput robustness and reliability enhancing features such as MIMO multi user MIMO 40 80 160 MHz channels transmit beamforming and packet aggregation is given plus clear summaries of issues surrounding legacy interoperability and coexistence Now updated and significantly revised this 2nd edition contains new material on 802 11ac throughput including revised chapters on MAC and interoperability plus new chapters on 802 11ac PHY and multi user MIMO An ideal reference for designers of WLAN equipment network managers and researchers in the field of wireless communications   **Wireless Multimedia Communication Systems** K.R. Rao,Zoran S. Bojkovic,Bojan M. Bakmaz,2017-07-12 Rapid progress in software hardware mobile networks and the potential of interactive media poses many questions for researchers manufacturers and operators of wireless multimedia communication systems Wireless Multimedia Communication Systems Design Analysis and Implementation strives to answer those questions by not only covering the underlying concepts involved in the design analysis and implementation of wireless multimedia communication systems but also by tackling advanced topics such as mobility management security components and smart grids Offering an accessible treatment of the latest research this book Presents specific wireless multimedia communication schemes that have proven to be useful Discusses important standardization processing activities regarding wireless networking Includes wireless mesh and multimedia sensor network architectures protocols and design optimizations Highlights the challenges associated with meeting complex connectivity

requirements Contains numerous figures tables examples references and a glossary of acronyms Providing coverage of significant technological advances in their initial steps along with a survey of the fundamental principles and practices Wireless Multimedia Communication Systems Design Analysis and Implementation aids senior level and graduate level engineering students and practicing professionals in understanding the processes and furthering the development of today s wireless multimedia communication systems   Internet Networks Krzysztof Iniewski,2018-10-03 In the not too distant future internet access will be dominated by wireless networks With that wireless edge using optical core next generation networks will become as ubiquitous as traditional telephone networks This means that telecom engineers chip designers and engineering students must prepare to meet the challenges and opportunities that the development and deployment of these technologies will bring Bringing together cutting edge coverage of wireless and optical networks in a single volume Internet Networks Wired Wireless and Optical Technologies provides a concise yet complete introduction to these dynamic technologies Filled with case studies illustrations and practical examples from industry the text explains how wireless wireline and optical networks work together It also Covers WLAN WPAN wireless access 3G 4G cellular RF transmission Details optical networks involving long haul and metropolitan networks optical fiber photonic devices and VLSI chips Provides clear instruction on the application of wireless and optical networks Taking into account recent advances in storage processing sensors displays statistical data analyses and autonomic systems this reference provides forward thinking engineers and students with a realistic vision of how the continued evolution of the technologies that touch wireless communication will soon reshape markets and business models around the world   **Controller-Based Wireless LAN Fundamentals** Jeff Smith,Jake Woodhams,Robert Marg,2010-10-29 Controller Based Wireless LAN Fundamentals An end to end reference guide to design deploy manage and secure 802 11 wireless networks As wired networks are increasingly replaced with 802 11n wireless connections enterprise users are shifting to centralized next generation architectures built around Wireless LAN Controllers WLC These networks will increasingly run business critical voice data and video applications that once required wired Ethernet In Controller Based Wireless LAN Fundamentals three senior Cisco wireless experts bring together all the practical and conceptual knowledge professionals need to confidently design configure deploy manage and troubleshoot 802 11n networks with Cisco Unified Wireless Network CUWN technologies The authors first introduce the core principles components and advantages of next generation wireless networks built with Cisco offerings Drawing on their pioneering experience the authors present tips insights and best practices for network design and implementation as well as detailed configuration examples Next they illuminate key technologies ranging from WLCs to Lightweight Access Point Protocol LWAPP and Control and Provisioning of Wireless Access Points CAPWAP Fixed Mobile Convergence to WiFi Voice They also show how to take advantage of the CUWN s end to end security automatic configuration self healing and integrated management capabilities This book serves as a practical hands on reference for all

network administrators designers and engineers through the entire project lifecycle and an authoritative learning tool for new wireless certification programs This is the only book that Fully covers the principles and components of next generation wireless networks built with Cisco WLCs and Cisco 802 11n AP Brings together real world tips insights and best practices for designing and implementing next generation wireless networks Presents start to finish configuration examples for common deployment scenarios Reflects the extensive first hand experience of Cisco experts Gain an operational and design level understanding of WLAN Controller WLC architectures related technologies and the problems they solve Understand 802 11n MIMO and protocols developed to support WLC architecture Use Cisco technologies to enhance wireless network reliability resilience and scalability while reducing operating expenses Safeguard your assets using Cisco Unified Wireless Network s advanced security features Design wireless networks capable of serving as an enterprise s primary or only access network and supporting advanced mobility services Utilize Cisco Wireless Control System WCS to plan deploy monitor troubleshoot and report on wireless networks throughout their lifecycles Configure Cisco wireless LANs for multicasting Quickly troubleshoot problems with Cisco controller based wireless LANs This book is part of the Cisco Press Fundamentals Series Books in this series introduce networking professionals to new networking technologies covering network topologies sample deployment concepts protocols and management techniques Category Wireless Covers Cisco Controller Based Wireless LANs

Next Generation Wireless LANs, Second Edition Eldad Perahia. Robert Stacey,2013   **Conference Proceedings** ,2004   Today's Facility Manager ,2007   Informationweek ,2008   **Microwave Journal** ,2006   *Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards* ,2006   **Next Generation Wireless Lans** Perahia,   Improving Next-generation Wireless Network Performance and Reliability with Deep Learning Faris Bassam Mismar,2019 A rudimentary question whether machine learning in general or deep learning in particular could add to the well established field of wireless communications which has been evolving for close to a century is often raised While the use of deep learning based methods is likely to help build intelligent wireless solutions this use becomes particularly challenging for the lower layers in the wireless communication stack The introduction of the fifth generation of wireless communications 5G has triggered the demand for network intelligence to support its promises for very high data rates and extremely low latency Consequently 5G wireless operators are faced with the challenges of network complexity diversification of services and personalized user experience Industry standards have created enablers such as the network data analytics function but these enablers focus on post mortem analysis at higher stack layers and have a periodicity in the time scale of seconds or larger The goal of this dissertation is to show a solution for these challenges and how a data driven approach using deep learning could add to the field of wireless communications In particular I propose intelligent predictive and prescriptive abilities to boost reliability and eliminate performance bottlenecks in 5G cellular networks and beyond show contributions that justify the value of deep learning in

wireless communications across several different layers and offer in depth analysis and comparisons with baselines and industry standards First to improve multi antenna network reliability against wireless impairments with power control and interference coordination for both packetized voice and beamformed data bearers I propose the use of a joint beamforming power control and interference coordination algorithm based on deep reinforcement learning This algorithm uses a string of bits and logic operations to enable simultaneous actions to be performed by the reinforcement learning agent Consequently a joint reward function is also proposed I compare the performance of my proposed algorithm with the brute force approach and show that similar performance is achievable but with faster run time as the number of transmit antennas increases Second in enhancing the performance of coordinated multipoint I propose the use of deep learning binary classification to learn a surrogate function to trigger a second transmission stream instead of depending on the popular signal to interference plus noise measurement quantity This surrogate function improves the users sum rate through focusing on pre logarithmic terms in the sum rate formula which have larger impact on this rate Third performance of band switching can be improved without the need for a full channel estimation My proposal of using deep learning to classify the quality of two frequency bands prior to granting the band switching leads to a significant improvement in users throughput This is due to the elimination of the industry standard measurement gap requirement a period of silence where no data is sent to the users so they could measure the frequency bands before switching In this dissertation a group of algorithms for wireless network performance and reliability for downlink are proposed My results show that the introduction of user coordinates enhance the accuracy of the predictions made with deep learning Also the choice of signal to interference plus noise ratio as the optimization objective may not always be the best choice to improve user throughput rates Further exploiting the spatial correlation of channels in different frequency bands can improve certain network procedures without the need for perfect knowledge of the per band channel state information Hence an understanding of these results help develop novel solutions to enhancing these wireless networks at a much smaller time scale compared to the industry standards today   Designing and Deploying 802.11n Wireless Networks James T. Geier,2010   **Design and Optimization of QoS-based Medium Access Control Protocols for Next-generation Wireless LANs** Dionysios Skordoulis,2013 In recent years there have been tremendous advances in wireless b 1 K model Results show that a trade off choice has to be taken into account over minimizing the waiting time or maximizing utilization We also point out that there isn t an optimum batch collection rule which can be assumed as generally valid but individual cases have to be considered separately Secondly we demonstrate through extensive simulations that by introducing a method the DCA algorithm which dynamically determines and adapts batch collections based upon the traffic s characteristics QoS requirements and server s maximum capacity also improves e ciency Thirdly it is important to understand the behaviour of the TCP ows over the WLAN and the influence that DCA has over the degrading performance of the TCP protocol We investigate the cause of the problem and provide the foundations of

designing and implementing possible solutions Fourthly we introduce two innovative proposals one amendment and one extension to the original DCA algorithm called Adaptive DCA and Selective DCA respectively Both solutions have been implemented in OPNET and extensive simulation runs over a wide set of scenarios show their effectiveness over the network s overall performance each in its own way   *Implementing 802.11, 802.16, and 802.20 Wireless Networks* Ron Olexa,2004-08-04 This is not another book about installing a home or hobby Wi Fi system Instead this book shows you how to plan design install and operate WLAN systems in businesses institutions and public settings such as libraries and hotels In other words this book is packed with serious information for serious professionals responsible for implementing robust high performance WLANs covering areas as small as a coffee shop or as large as entire communities Ron Olexa provides a solid foundation in RF wireless theory as it applies to WLANs His detailed thorough coverage of propagation at GHz frequencies helps you understand the mysteries of WLAN coverage such as how it can change from season to season due to foliage You ll also learn about antenna radiation patterns and gain so you can design you WLAN to have the coverage you need without causing interference to or suffering interference from other WLANs Covers the widely used 802 11 family as well as the new 802 16 and 802 20 standards Focuses on big commercial network implementations such as in public buildings and businesses Author has over 25 years of experience with cellular systems and wireless networks   *Design and Analysis of Medium Access Control Protocols for Broadband Wireless Networks* Lin Cai,2009 The next generation wireless networks are expected to integrate diverse network architectures and various wireless access technologies to provide a robust solution for ubiquitous broadband wireless access such as wireless local area networks WLANs Ultra Wideband UWB and millimeter wave mmWave based wireless personal area networks WPANs etc To enhance the spectral efficiency and link reliability smart antenna systems have been proposed as a promising candidate for future broadband access networks To effectively exploit the increased capabilities of the emerging wireless networks the different network characteristics and the underlying physical layer features need to be considered in the medium access control MAC design which plays a critical role in providing efficient and fair resource sharing among multiple users In this thesis we comprehensively investigate the MAC design in both single and multi hop broadband wireless networks with and without infrastructure support   Improving the Performance of Wireless LANs Nurul Sarkar,2014-01-08 While there are countless books on wireless networks few actually quantify the key performance limiting factors of wireless local area networks WLANs and describe various methods for improving WLAN performance Fulfilling these needs Improving the Performance of Wireless LANs A Practical Guide provides both theoretical background and empirical   *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

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