

Klara Nahrstedt

# Quality of Service in Wireless Networks Over Unlicensed Spectrum



**Suparerk Manitpornsut** 

Quality of Service in Wireless Networks Over Unlicensed Spectrum Klara Nahrstedt, 2011-12-11 This Synthesis Lecture presents a discussion of Quality of Service QoS in wireless networks over unlicensed spectrum The topic is presented from the point of view of protocols for wireless networks e g 802 11 rather than the physical layer point of view usually discussed for cellular networks in the licensed wireless spectrum A large number of mobile multimedia wireless applications are being deployed over WiFi IEEE 802 11 and Bluetooth wireless networks and the number will increase in the future as more phones tablets and laptops are equipped with these unlicensed spectrum wireless interfaces Achieving QoS objectives in wireless networks is challenging due to limited wireless resources wireless nodes interference wireless shared media node mobility and diverse topologies The author presents the QoS problem as 1 an optimization problem with different constraints coming from the interference mobility and wireless resource constraints and 2 an algorithmic problem with fundamental algorithmic functions within wireless resource management and protocols Table of Contents Preface Basics of Quality of Service in Wireless Networks QoS Aware Resource Allocation Bandwidth Management Delay Management Routing Acknowledgment References Author Biography **Quality of Service in Wireless Networks Over Unlicensed Spectrum** Klara Nahrstedt, 2022-06-01 This Synthesis Lecture presents a discussion of Quality of Service QoS in wireless networks over unlicensed spectrum The topic is presented from the point of view of protocols for wireless networks e g 802 11 rather than the physical layer point of view usually discussed for cellular networks in the licensed wireless spectrum A large number of mobile multimedia wireless applications are being deployed over WiFi IEEE 802 11 and Bluetooth wireless networks and the number will increase in the future as more phones tablets and laptops are equipped with these unlicensed spectrum wireless interfaces Achieving QoS objectives in wireless networks is challenging due to limited wireless resources wireless nodes interference wireless shared media node mobility and diverse topologies. The author presents the QoS problem as 1 an optimization problem with different constraints coming from the interference mobility and wireless resource constraints and 2 an algorithmic problem with fundamental algorithmic functions within wireless resource management and protocols Table of Contents Preface Basics of Quality of Service in Wireless Networks QoS Aware Resource Allocation Bandwidth Management Delay Management Routing Acknowledgment References Author Biography Cyber Foraging Iason Flinn, 2022-06-01 This lecture provides an introduction to cyber foraging a topic that lies at the intersection of mobile and cloud computing Cyber foraging dynamically augments the computing resources of mobile computers by opportunistically exploiting fixed computing infrastructure in the surrounding environment In a cyber foraging system applications functionality is dynamically partitioned between the mobile computer and infrastructure servers that store data and execute computation on behalf of mobile users The location of application functionality changes in response to user mobility platform characteristics and variation in resources such as network bandwidth and CPU load Cyber foraging also introduces a new

surrogate computing tier that lies between mobile users and cloud data centers Surrogates are wired infrastructure servers that offer much greater computing resources than those offered by small battery powered mobile devices Surrogates are geographically distributed to be as close as possible to mobile computers so that they can provide substantially better response time to network requests than that provided by servers in cloud data centers For instance surrogates may be co located with wireless hotspots in coffee shops airport lounges and other public locations This lecture first describes how cyber foraging systems dynamically partition data and computation It shows how dynamic partitioning can often yield better performance energy efficiency and application quality than static thin client or thick client approaches for dividing functionality between cloud and mobile computers The lecture then describes the design of the surrogate computing tier It shows how strong isolation can enable third party computers to host computation and store data on behalf of nearby mobile devices It then describes how surrogates can provide reasonable security and privacy guarantees to the mobile computers that use them The lecture concludes with a discussion of data staging in which surrogates temporarily store data in transit between cloud servers and mobile computers in order to improve transfer bandwidth and energy efficiency Table of Contents Introduction Partitioning Management Security and Privacy Data Staging Challenges and Opportunities Displays Nigel Davies, Sarah Clinch, Florian Alt, 2022-05-31 Fueled by falling display hardware costs and rising demand digital signage and pervasive displays are becoming ever more ubiquitous Such systems have traditionally been used for advertising and information dissemination with digital signage commonplace in shopping malls airports and public spaces While advertising and broadcasting announcements remain important applications developments in sensing and interaction technologies are enabling entirely new classes of display applications that tailor content to the situation and audience of the display As a result signage systems are beginning to transition from simple broadcast systems to rich platforms for communication and interaction In this lecture we provide an introduction to this emerging field for researchers and practitioners interested in creating state of the art pervasive display systems. We begin by describing the history of pervasive display research providing illustrations of key systems from pioneering work on supporting collaboration to contemporary systems designed for personalized information delivery. We then consider what the near future might hold for display networks describing a series of compelling applications that are being postulated for future display networks Creating such systems raises a wide range of challenges and requires designers to make a series of important trade offs We dedicate four chapters to key aspects of pervasive display design audience engagement display interaction system software and system evaluation These chapters provide an overview of current thinking in each area Finally we present a series of case studies of display systems and our concluding remarks Mobile Platforms and Development Environments Sumi Helal, Raja Bose, Wendong Li, 2022-06-01 Mobile platform development has lately become a technological war zone with extremely dynamic and fluid movement especially in the smart phone and tablet market space This Synthesis lecture is a guide to the

latest developments of the key mobile platforms that are shaping the mobile platform industry. The book covers the three currently dominant native platforms iOS Android and Windows Phone along with the device agnostic HTML5 mobile web platform The lecture also covers location based services LBS which can be considered as a platform in its own right The lecture utilizes a sample application TwitterSearch that the authors show programmed on each of the platforms Audiences who may benefit from this lecture include 1 undergraduate and graduate students taking mobile computing classes or self learning the mobile platform programmability road map 2 academic and industrial researchers working on mobile computing R 3 mobile app developers for a specific platform who may be curious about other platforms 4 system integrator consultants and firms concerned with mobilizing businesses and enterprise apps and 5 industries including health care logistics mobile workforce management mobile commerce and payment systems and mobile search and advertisement Table of Contents From the Newton to the iPhone iOS Android Windows Phone Mobile Web Platform in Platform Location Based Services LBS The Future of Mobile Platforms TwitterSearch Sample Application **Privacy in Mobile and Pervasive Computing Marc** Langheinrich, Florian Schaub, 2022-05-31 It is easy to imagine that a future populated with an ever increasing number of mobile and pervasive devices that record our minute goings and doings will significantly expand the amount of information that will be collected stored processed and shared about us by both corporations and governments The vast majority of this data is likely to benefit us greatly making our lives more convenient efficient and safer through custom tailored and context aware services that anticipate what we need where we need it and when we need it But beneath all this convenience efficiency and safety lurks the risk of losing control and awareness of what is known about us in the many different contexts of our lives Eventually we may find ourselves in a situation where something we said or did will be misinterpreted and held against us even if the activities were perfectly innocuous at the time Even more concerning privacy implications rarely manifest as an explicit tangible harm Instead most privacy harms manifest as an absence of opportunity which may go unnoticed even though it may substantially impact our lives In this Synthesis Lecture we dissect and discuss the privacy implications of mobile and pervasive computing technology For this purpose we not only look at how mobile and pervasive computing technology affects our expectations of and ability to enjoy privacy but also look at what constitutes privacy in the first place and why we should care about maintaining it We describe key characteristics of mobile and pervasive computing technology and how those characteristics lead to privacy implications. We discuss seven approaches that can help support end user privacy in the design of mobile and pervasive computing technologies and set forward six challenges that will need to be addressed by future research The prime target audience of this lecture are researchers and practitioners working in mobile and pervasive computing who want to better understand and account for the nuanced privacy implications of the technologies they are creating Those new to either mobile and pervasive computing or privacy may also benefit from reading this book to gain an overview and deeper understanding of this highly interdisciplinary and dynamic field Intelligent

Notification Systems Abhinav Mehrotra, Mirco Musolesi, 2022-06-01 Notifications provide a unique mechanism for increasing the effectiveness of real time information delivery systems However notifications that demand users attention at inopportune moments are more likely to have adverse effects and might become a cause of potential disruption rather than proving beneficial to users In order to address these challenges a variety of intelligent notification mechanisms based on monitoring and learning users behavior have been proposed The goal of such mechanisms is maximizing users receptivity to the delivered information by automatically inferring the right time and the right context for sending a certain type of information This book presents an overview of the current state of the art in the area of intelligent notification mechanisms that rely on the awareness of users context and preferences We first present a survey of studies focusing on understanding and modeling users interruptibility and receptivity to notifications from desktops and mobile devices. Then we discuss the existing challenges and opportunities in developing mechanisms for intelligent notification systems in a variety of application scenarios Mobile User Research Sunny Consolvo, Frank R. Bentley, Eric B. Hekler, Sayali S. Phatak, 2022-06-01 This book will give you a practical overview of several methods and approaches for designing mobile technologies and conducting mobile user research including how to understand behavior and evaluate how such technologies are being or may be used out in the world Each chapter includes case studies from our own work and highlights advantages limitations and very practical steps that should be taken to increase the validity of the studies you conduct and the data you collect This book is intended as a practical guide for conducting mobile research focused on the user and their experience We hope that the depth and breadth of case studies presented as well as specific best practices will help you to design the best technologies possible and choose appropriate methods to gather ethical reliable and generalizable data to explore the use of mobile technologies out in the world Quality of Service for Wireless Networks Patrick Oliver Casey, 2005 On the Performance of Dense Wireless Local Area Networks in Unlicensed Spectrum, Investigations and Improvement Suparerk Manitpornsut, 2009

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