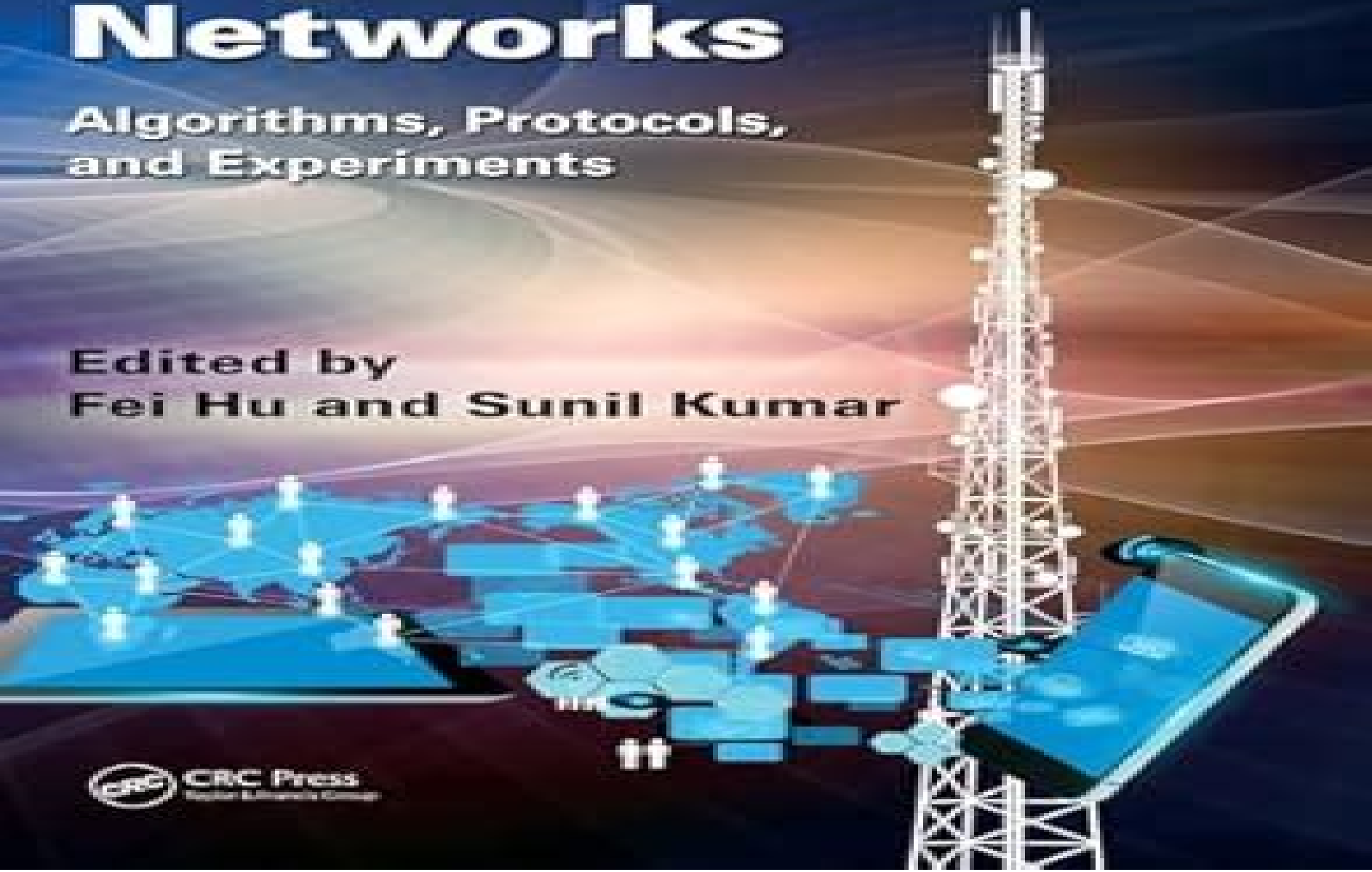# Multimedia over Cognitive Radio Networks

Algorithms, Protocols, and Experiments

Edited by
Fei Hu and Sunil Kumar

Multimedia Over Cognitive Radio Networks Algorithms Protocols And Experiments

Lakhtaria, Kamaljit I.

Multimedia Over Cognitive Radio Networks Algorithms Protocols And Experiments:

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 infrastructure must be created Cognitive Radio Networks CRNs are widely regarded as one of the most promising technologies for future wireless communications This book explains how to efficiently deliver video audio and other data over CRNs Covering advanced algorithms protocols and hardware software based experiments this book describes how to encode video in a prioritized way to send to dynamic radio links It discusses different FEC codes for video reliability and explains how different machine learning algorithms can be used for video quality control It also explains how to use readily available software tools to build a CRN simulation model This book explains both theoretical and experimental designs It describes how universal software radio peripheral USRP boards can be used for real time high resolution video transmission It also discusses how a USRP board can sense the spectrum dynamics and how it can be controlled by GNU Radio software A separate chapter discusses how the network simulator ns 2 can be used to build a simulated CRN platform   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   Security and Privacy in Internet of Things (IoTs) Fei Hu,2016-04-05 The Internet of Things IoT has attracted strong interest from both academia and industry Unfortunately it has also attracted the attention of hackers Security and Privacy in Internet of Things IoTs Models Algorithms and Implementations brings together some of the top IoT security experts from around the world who contribute their knowledg   Big Data Fei Hu,2016-04-27 Although there are already some books published on Big Data most of them only cover basic concepts and society impacts and ignore the internal implementation details making them unsuitable to R D people To fill such a need Big Data Storage Sharing and Security examines Big Data management from an R D perspective It covers the 3S desi   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

Handbook of Research on Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Management Kaabouch, Naima,Hu, Wen-Chen,2014-10-31 The inadequate use of wireless spectrum resources has recently motivated researchers and practitioners to look for new ways to improve resource efficiency As a result new cognitive radio technologies have been proposed as an effective solution The Handbook of Research on Software Defined and Cognitive Radio Technologies for Dynamic Spectrum Management examines the emerging technologies being used to overcome radio spectrum scarcity Providing timely and comprehensive coverage on topics pertaining to channel estimation spectrum sensing communication security frequency hopping and smart antennas this research work is essential for use by educators industrialists and graduate students as well as academicians researching in the field **Handbook of Research on Progressive Trends in Wireless Communications and Networking** Matin, M.A.,2014-02-28 This book brings together advanced research on diverse topics in wireless communications and networking including the latest developments in broadband technologies mobile communications wireless sensor networks network security and cognitive radio networks

Ad-hoc, Mobile, and Wireless Networks Song Guo,Jaime Lloret Mauri,Pietro Manzoni,Stefan Ruehrup,2014-06-17 This book constitutes the refereed proceedings of the 13th International Conference on Ad hoc Mobile and Wireless Networks ADHOC NOW 2014 held in Benidorm Spain in June 2014 The 33 revised full papers presented were carefully reviewed and selected from 78 submissions The papers address such diverse topics as routing cellular networks MAC and physical layer mobile ad hoc sensor and robot networks localization and security vehicular ad hoc networks **Cognitive Radio Networks** Kwang-Cheng Chen,Ramjee Prasad,2009-03-30 Giving a basic overview of the technologies supporting cognitive radio this introductory level text follows a logical approach starting with the physical layer and concluding with applications and general issues It provides a background to advances in the field of cognitive radios and a new exploration of how these

radios can work together as a network Cognitive Radio Networks starts with an introduction to the fundamentals of wireless communications introducing technologies such as OFDM MIMO It moves onto cover software defined radio and explores and contrasts wireless cooperative and cognitive networks and communications Spectrum sensing medium access control and network layer design are examined before the book concludes by covering the topics of trusted cognitive radio networks and spectrum management Unique in providing a brief but clear tutorial and reference to cognitive radio networks this book is a single reference written at the appropriate level for newcomers as well as providing an encompassing text for those with more knowledge of the subject One of the first books to provide a systematic description of cognitive radio networks Provides pervasive background knowledge including both wireless communications and wireless networks Written by leading experts in the field Full network stack investigation **Technological Advancements and Applications in Mobile Ad-Hoc Networks: Research Trends** Lakhtaria, Kamaljit I.,2012-03-31 Mobile ad hoc networks must be rapidly interoperable customizable and quick to adapt to the latest technological advances Technological Advancements and Applications in Mobile Ad Hoc Networks Research Trends offers a current look into the latest research in the field frameworks for development and future directions As mobile networks become more complex it is vital for researchers practitioners and academics alike to stay abreast within the ever burgeoning field With a wide range of applications theories and use across industrial commercial and domestic settings mobile ad hoc networks are a topic of vital discussion and this volume offers the cutting edge developments with contributions from around the world Emerging Wireless Communication and Network Technologies Karm Veer Arya,Robin Singh Bhadoria,Narendra S. Chaudhari,2018-06-09 The book covers a wide range of wireless communication and network technologies and will help readers understand the role of wireless technologies in applications touching on various spheres of human life e g healthcare agriculture building smart cities forecasting and the manufacturing industry The book begins by discussing advances in wireless communication including emerging trends and research directions for network technologies It also highlights the importance of and need to actively develop these technologies In turn the book addresses different algorithms and methodologies which could be beneficial in implementing 5G Mobile Communication Vehicular Ad hoc Networks VANET Reliable Cooperative Networks Delay Tolerant Networks DTN and many more contexts related to advanced communications It then addresses the prominence of wireless communication in connection with the Internet of Things IoT Mobile Opportunistic Networks and Cognitive Radio Networks CRN Lastly it presents the new horizons in architecture and building protocols for Li Fi Light Fidelity and Wearable Sensor Technology

Towards Cognitive IoT Networks Mohammad Abdul Matin,2020-03-25 This book gathers state of the art research contributions written by academics and researchers which address emerging trends in system design and implementation for the Internet of Things IoT and discuss how to promote IoT technologies and applications The book is chiefly intended for researchers and academics who want to get caught up with the latest trends in enabling technologies for IoT and related

applications and services However it also includes chapters on the fundamentals of IoT offering essential orientation for general readers   **Oscillatory Neural Networks** Margarita G. Kuzmina,Eduard A. Manykin,Evgeny S. Grichuk,2013-11-27 Understanding of the human brain functioning currently represents a challenging problem In contrast to usual serial computers and complicated hierarchically organized artificial man made systems decentralized parallel and distributed information processing principles are inherent to the brain Besides adaptation and learning which play a crucial role in brain functioning oscillatory neural activity synchronization and resonance accompany the brain work Neural like oscillatory network models designed by the authors for image processing allow to elucidate the capabilities of dynamical synchronization based types of image processing presumably exploited by the brain The oscillatory network models studied by means of computer modeling and qualitative analysis are presented and discussed in the book Some other problems of parallel distributed information processing are also considered such as a recall process from network memory for large scale recurrent associative memory neural networks performance of oscillatory networks of associative memory dynamical oscillatory network methods of image processing with synchronization based performance optical parallel information processing based on the nonlinear optical phenomenon of photon echo and modeling random electric fields of quasi monochromatic polarized light beams using systems of superposed stochastic oscillators This makes the book highly interesting to researchers dealing with various aspects of parallel information processing   *Building the Future Internet through FIRE* Martin Serrano,Nikolaos Isaris,Hans Schaffers,2022-09-01 The Internet as we know it today is the result of a continuous activity for improving network communications end user services computational processes and also information technology infrastructures The Internet has become a critical infrastructure for the human being by offering complex networking services and end user applications that all together have transformed all aspects mainly economical of our lives Recently with the advent of new paradigms and the progress in wireless technology sensor networks and information systems and also the inexorable shift towards everything connected paradigm first as known as the Internet of Things and lately envisioning into the Internet of Everything a data driven society has been created In a data driven society productivity knowledge and experience are dependent on increasingly open dynamic interdependent and complex Internet services The challenge for the Internet of the Future design is to build robust enabling technologies implement and deploy adaptive systems to create business opportunities considering increasing uncertainties and emergent systemic behaviors where humans and machines seamlessly cooperate   **Cognitive Radio Networks** Ahmed Khattab,Dmitri Perkins,Magdy Bayoumi,2012-08-27 This book describes a communication paradigm that could shape the future of wireless communication networks Opportunistic Spectrum Access OSA in Cognitive Radio Networks CRN While several theoretical OSA approaches have been proposed they are challenged by the practical limitations of cognitive radios the key enabling technology of OSA This book presents an unprecedented formulation of the OSA problem in CNR that takes into account the practical limitations

encountered due to existing technologies Based on such a problem formulation this book presents a framework and protocol details implementing the analytically optimized solution of this problem Unlike the state of the art of CRN implementations that typically target software define radios which are not suitable for real systems this book describes the implementation of distributed OSA using practical radio transceiver technologies It provides a thorough characterization of the gains available to theoretical OSA approaches if the practical limitations are taken into consideration Tackles the cognitive radio networks performance optimization problem taking into account the practical limitations of today s technologies Provides thorough performance evaluation in arbitrary large scale networks as well as microscopic small scale performance evaluation using realistic hardware implementation Presents an empirical study of the gains available over existing techniques by adopting practical approaches Tackles the cognitive radio networks performance optimization problem taking into account the practical limitations of today s technologies Provides thorough performance evaluation in arbitrary large scale networks as well as microscopic small scale performance evaluation using realistic hardware implementation Presents an empirical study of the gains available over existing techniques by adopting practical approaches   Radio Link Quality Estimation in Low-Power Wireless Networks Nouha Baccour,Anis Koubâa,Claro Noda,Hossein Fotouhi,Mário Alves,Habib Youssef,Marco Antonio Zúñiga,Carlo Alberto Boano,Kay Römer,Daniele Puccinelli,Thiemo Voigt,Luca Mottola,2013-07-18 This book provides a comprehensive survey on related work for radio link quality estimation which covers the characteristics of low power links the fundamental concepts of link quality estimation in wireless sensor networks a taxonomy of existing link quality estimators and their performance analysis It then shows how link quality estimation can be used for designing protocols and mechanisms such as routing and hand off The final part is dedicated to radio interference estimation generation and mitigation   **Energy Detection for Spectrum Sensing in Cognitive Radio** Saman Atapattu,Chintha Tellambura,Hai Jiang,2014-02-15 This Springer Brief focuses on the current state of the art research on spectrum sensing by using energy detection a low complexity and low cost technique It includes a comprehensive summary of recent research fundamental theories possible architectures useful performance measurements of energy detection and applications of energy detection Concise practical chapters explore conventional energy detectors alternative forms of energy detectors performance measurements diversity techniques and cooperative networks The careful analysis enables reader to identify the most efficient techniques for improving energy detection performance Energy Detection for Spectrum Sensing in Cognitive Radio is a valuable tool for researchers and practitioners interested in spectrum sensing and cognitive radio networks Advanced level students studying wireless communication will also benefit from this brief   Using Cross-Layer Techniques for Communication Systems Rashvand, Habib F.,2012-04-30 Although the existing layering infrastructure used globally for designing computers data networks and intelligent distributed systems and which connects various local and global communication services is conceptually correct and pedagogically elegant it is now well over 30 years old has started create

a serious bottleneck Using Cross Layer Techniques for Communication Systems Techniques and Applications explores how cross layer methods provide ways to escape from the current communications model and overcome the challenges imposed by restrictive boundaries between layers Written exclusively by well established researchers experts and professional engineers the book will present basic concepts address different approaches for solving the cross layer problem investigate recent developments in cross layer problems and solutions and present the latest applications of the cross layer in a variety of systems and networks **Techno-Societal 2018** Prashant M. Pawar,Babruvahan P. Ronge,R. Balasubramaniam,Anup S. Vibhute,Sulabha S. Apte,2019-11-06 This book divided in two volumes originates from Techno Societal 2018 the 2nd International Conference on Advanced Technologies for Societal Applications Maharashtra India that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations The focus is on technologies that help develop and improve society in particular on issues such as the betterment of differently abled people environment impact livelihood rural employment agriculture healthcare energy transport sanitation water education This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region On the other hand technologies proposed by expert researchers may find applications in different regions This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science Engineering and Technology for reporting innovations at different levels *Recent Advances in Intelligent Engineering Systems* János Fodor,Ryszard Klempous,Carmen Paz Suárez Araujo,2011-09-25 This volume is a collection of 19 chapters on intelligent engineering systems written by respectable experts of the fields The book consists of three parts The first part is devoted to the foundational aspects of computational intelligence It consists of 8 chapters that include studies in genetic algorithms fuzzy logic connectives enhanced intelligence in product models nature inspired optimization technologies particle swarm optimization evolution algorithms model complexity of neural networks and fitness landscape analysis The second part contains contributions to intelligent computation in networks presented in 5 chapters The covered subjects include the application of self organizing maps for early detection of denial of service attacks combating security threats via immunity and adaptability in cognitive radio networks novel modifications in WSN network design for improved SNR and reliability a conceptual framework for the design of audio based cognitive infocommunication channels and a case study on the advantages of fuzzy and anytime signal and image processing techniques Computational intelligence represents a widely spread interdisciplinary research area with many applications in various disciplines including engineering medicine technology environment among others Therefore third part of this book consists of 6 chapters on applications This is a very important part of the volume because the reader can find in it a wide range of fields where computational intelligence plays a significant role

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