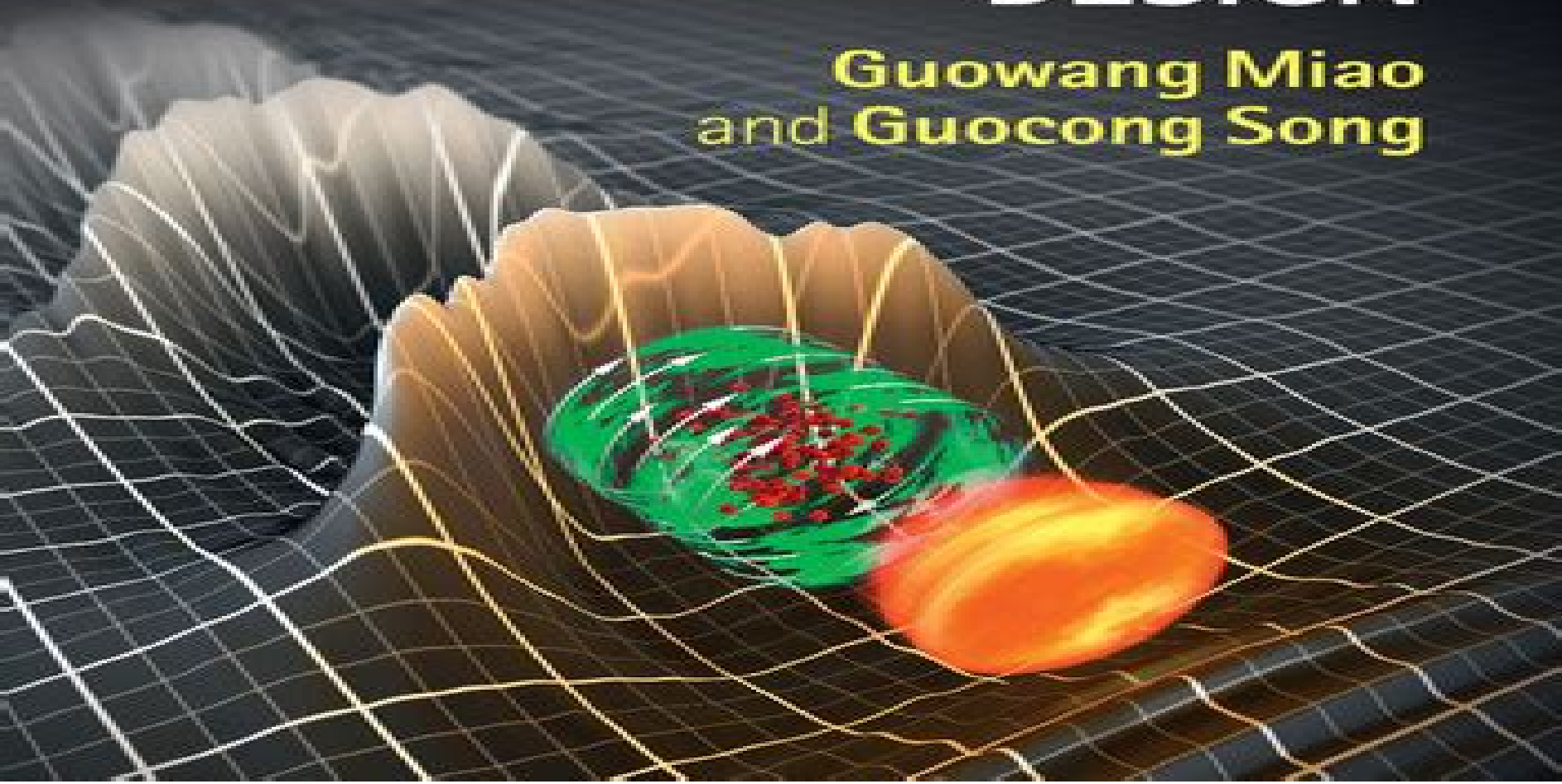


ENERGY AND SPECTRUM EFFICIENT WIRELESS NETWORK DESIGN

Guowang Miao
and Guocong Song



Energy And Spectrum Efficient Wireless Network Design

Yunxia Chen

A decorative red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the author's name.

Energy And Spectrum Efficient Wireless Network Design:

Energy and Spectrum Efficient Wireless Network Design Guowang Miao,Guocong Song,2015 Provides the fundamental principles and practical tools needed to design next generation wireless networks that are both energy and spectrum efficient

Energy and Spectrum Efficient Wireless Network Design Guowang Miao,Guocong Song,2014-11-27
Covering the fundamental principles and state of the art cross layer techniques this practical guide provides the tools needed to design MIMO and OFDM based wireless networks that are both energy and spectrum efficient Technologies are introduced in parallel for both centralized and distributed wireless networks to give you a clear understanding of the similarities and differences between their energy and spectrum efficient designs which is essential for achieving the highest network energy saving without losing performance Cutting edge green cellular network design technologies enabling you to master resource management for next generation wireless networks based on MIMO and OFDM and detailed real world implementation examples are provided to guide your engineering design in both theory and practice Whether you are a graduate student a researcher or a practitioner in industry this is an invaluable guide

Fundamentals of Mobile Data Networks Guowang Miao,Jens Zander,Ki Won Sung,Slimane Ben Slimane,2016-03-03 This unique text provides a comprehensive and systematic introduction to the theory and practice of mobile data networks Covering basic design principles as well as analytical tools for network performance evaluation and with a focus on system level resource management you will learn how state of the art network design can enable you flexibly and efficiently to manage and trade off various resources such as spectrum energy and infrastructure investments Topics covered range from traditional elements such as medium access cell deployment capacity handover and interference management to more recent cutting edge topics such as heterogeneous networks energy and cost efficient network design and a detailed introduction to LTE 4G Numerous worked examples and exercises illustrate the key theoretical concepts and help you put your knowledge into practice making this an essential resource whether you are a student researcher or practicing engineer

Towards 5G Rath Vannithamby,Shilpa Talwar,2017-01-30 This book brings together a group of visionaries and technical experts from academia to industry to discuss the applications and technologies that will comprise the next set of cellular advancements 5G In particular the authors explore usages for future 5G communications key metrics for these usages with their target requirements and network architectures and enabling technologies to meet 5G requirements The objective is to provide a comprehensive guide on the emerging trends in mobile applications and the challenges of supporting such applications with 4G technologies

Joint Physical-MAC Layer Optimization for Spectral- and Energy-Efficient Wireless Networks Guowang Miao,Ye (Geoffrey) Li,Guocong Song,2013-11-28 Joint Physical MAC Layer Optimization for Spectral and Energy Efficient Wireless Networks provides a deep technical overview of recent advances in joint spectral and energy efficient designs for wireless networks The book explores various types of wireless networks such as 3G 4G cellular ad hoc wireless

networks and wireless local area networks The authors discuss cross layer design for joint spectrum and energy efficiency as well as green network design that achieves high network performance This book introduces state of the art design and resource management technologies to improve both spectral and energy efficiencies of various wireless systems **Energy and Spectral Efficient Wireless Communications** Guoqing Zhou,2012 Energy and spectrum are two precious commodities for wireless communications How to improve the energy and spectrum efficiency has become two critical issues for the designs of wireless communication systems This dissertation is devoted to the development of energy and spectral efficient wireless communications The developed techniques can be applied to a wide range of wireless communication systems such as wireless sensor network WSN designed for structure health monitoring SHM medium access control MAC for multi user systems and cooperative spectrum sensing in cognitive radio systems First to improve the energy efficiency in SHM WSN a new ultra low power ULP WSN is proposed to monitor the vibration properties of structures such as buildings bridges and the wings and bodies of aircrafts The new scheme integrates energy harvesting data sensing and wireless communication into a unified process and it achieves significant energy savings compared to existing WSNs Second a cross layer collision tolerant CT MAC scheme is proposed to improve energy and spectral efficiency in a multi user system with shared medium When two users transmit simultaneously over a shared medium a collision happens at the receiver Conventional MAC schemes will discard the collided signals which result in a waste of the precious energy and spectrum resources In our proposed CT MAC scheme each user transmits multiple weighted replicas of a packet at randomly selected data slots in a frame and the indices of the selected slots are transmitted in a special collision free position slot at the beginning of each frame Collisions of the data slots in the MAC layer are resolved by using multiuser detection MUD in the PHY layer Compared to existing schemes the proposed CT MAC scheme can support more simultaneous users with a higher throughput Third a new cooperative spectrum sensing scheme is proposed to improve the energy and spectral efficiency of a cognitive radio network A new Slepian Wolf coded cooperation scheme is proposed for a cognitive radio network with two secondary users SUs performing cooperative spectrum sensing through a fusion center FC The proposed scheme can achieve significant performance gains compared to existing schemes **Dissertation Abstracts International** ,2009 A *Decision-theoretic Approach to Resource-constrained Wireless Networking* Yunxia Chen,2007 **Energy Efficient Cooperative Wireless Communication and Networks** Zhengguo Sheng,Chi Harold Liu,2014-11-11 Compared with conventional communications cooperative communication allows multiple users in a wireless network to coordinate their packet transmissions and share each other s resources thus achieving high performance gain and better service coverage and reliability Energy Efficient Cooperative Wireless Communication and Networks provides a comprehensive look at energy efficiency and system design of cooperative wireless communication Introducing effective cooperative wireless communication schemes the book supplies the understanding and methods required to improve energy efficiency reliability

and end to end protocol designs for wireless communication systems It explains the practical benefits and limitations of cooperative transmissions along with the associated designs of upper layer protocols including MAC routing and transport protocol The book considers power efficiency as a main objective in cooperative communication to ensure quality of service QoS requirements It explains how to bring the performance gain at the physical layer up to the network layer and how to allocate network resources dynamically through MAC scheduling and routing to trade off the performance benefits of given transmissions against network costs Because the techniques detailed in each chapter can help readers achieve energy efficiency and reliability in wireless networks they have the potential to impact a range of industry areas including wireless communication wireless sensor networks and ad hoc networks The book includes numerous examples best practices and models that capture key issues in real world applications Along with algorithms and tips for effective design the book supplies the understanding you will need to achieve high performing and energy efficient wireless networks with improved service coverage and reliability

Proceedings, RAWCON 98 IEEE Microwave Theory and Techniques Society, IEEE Pikes Peak Section, 1998 These papers from RAWCON 98 offer an interdisciplinary focus at the intersection between radio frequency and communications engineering Topics include broadband wireless systems concepts system architecture and networking and system modelling and measurement

Energy Efficiency in Wireless Networks Via Fractional Programming Theory Alessio Zappone, Eduard Jorswieck, 2015-06-05 Energy Efficiency in Wireless Networks via Fractional Programming Theory provides a comprehensive introduction to the theoretical and practical aspects of energy efficient wireless network design

Energy Management in Wireless Cellular and Ad-hoc Networks Muhammad Zeeshan Shakir, Muhammad Ali Imran, Khalid A. Qaraqe, Mohamed-Slim Alouini, Athanasios V. Vasilakos, 2016-01-14 This book investigates energy management approaches for energy efficient or energy centric system design and architecture and presents end to end energy management in the recent heterogeneous type wireless network medium It also considers energy management in wireless sensor and mesh networks by exploiting energy efficient transmission techniques and protocols and explores energy management in emerging applications services and engineering to be facilitated with 5G networks such as WBANs VANETS and Cognitive networks A special focus of the book is on the examination of the energy management practices in emerging wireless cellular and ad hoc networks Considering the broad scope of energy management in wireless cellular and ad hoc networks this book is organized into six sections covering range of Energy efficient systems and architectures Energy efficient transmission and techniques Energy efficient applications and services

Energy Efficient Cooperative Wireless Communication and Networks Zhengguo Sheng, Chi Liu, 2014 Compared with conventional communications cooperative communication allows multiple users in a wireless network to coordinate their packet transmissions and share each other's resources thus achieving high performance gain and better service coverage and reliability Energy Efficient Cooperative Wireless Communication and Networks provides a comprehensive look at energy

efficiency and system design of cooperative wireless communication

Introducing effective cooperative wireless communication schemes the book supplies the understanding and methods required to improve energy efficiency reliability and end to end protocol designs for wireless communication systems It explains the practical benefits and limitations of cooperative transmissions along with the associated designs of upper layer protocols including MAC routing and transport protocol The book considers power efficiency as a main objective in cooperative communication to ensure quality of service QoS requirements It explains how to bring the performance gain at the physical layer up to the network layer and how to allocate network resources dynamically through MAC scheduling and routing to trade off the performance benefits of given transmissions against network costs Because the techniques detailed in each chapter can help readers achieve energy efficiency and reliability in wireless networks they have the potential to impact a range of industry areas including wireless communication wireless sensor networks and ad hoc networks The book includes numerous examples best practices and models that capture key issues in real world applications Along with algorithms and tips for effective design the book supplies the understanding you will need to achieve high performing and energy efficient wireless networks with improved service coverage and reliability

Conference Record ,2005 **Green Networking and Communications** Shafiullah Khan,Jaime Lloret Mauri,2013-10-29

Although the information and communication technology ICT industry accounted for only 2 percent of global greenhouse gas emissions in 2007 the explosive increase in data traffic brought about by a rapidly growing user base of more than a billion wireless subscribers is expected to nearly double that number by 2020 It is clear that now is the time to rethink how we design and build our networks Green Networking and Communications ICT for Sustainability brings together leading academic and industrial researchers from around the world to discuss emerging developments in energy efficient networking and communications It covers the spectrum of research subjects including methodologies and architectures for energy efficiency energy efficient protocols and networks energy management smart grid communications and communication technologies for green solutions Examines foraging inspired radio communication energy management for green multi radio networks Considers a cross layer approach to the design of energy efficient wireless access networks Investigates the interplay between cooperative device to device communications and green LTE cellular networks Considers smart grid energy procurement for green LTE cellular networks Details smart grid networking protocols and standards Considering the spectrum of energy efficient network components and approaches for reducing power consumption the book is organized into three sections Energy Efficiency and Management in Wireless Networks Cellular Networks and Smart Grids It addresses many open research challenges regarding energy efficiency for IT and for wireless sensor networks including mobile and wireless access networks broadband access networks home networks vehicular networks intelligent future wireless networks and smart grids It also examines emerging standards for energy efficient protocols Since ICT technologies touch on nearly all sectors of the economy the concepts presented in this text offer

you the opportunity to make a substantial contribution to the reduction of global greenhouse gas emissions

Mathematical Reviews ,2005 *ICT, Information and Communication Technologies* ,2009 **Resource Allocation in Wireless Networks** Seong-Jun Oh,2000 **Energy Efficiency in Wireless Networks** R Maheswar,M Kathirvelu,K Mohanasundaram,2023-11-10 This reprint features 18 selected high quality research articles spanning diverse domains in the field of energy efficient wireless communication and networking The contributions in this reprint collectively underscore the significance of energy optimization in wireless systems illuminating innovative approaches algorithms and technologies that pave the way for sustainable and efficient wireless communication in various application scenarios This reprint brings together a rich tapestry of research that illuminates the ongoing efforts to design optimize and implement energy efficient wireless communication and networking solutions This reprint also encourages researchers to explore finer areas in the energy efficient wireless network domain and provides a significant contribution to the research community to help further extend their areas of research 2005 IEEE International Conference on Service Operations and Logistics, and Informatics Robin G. Qiu,2005

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