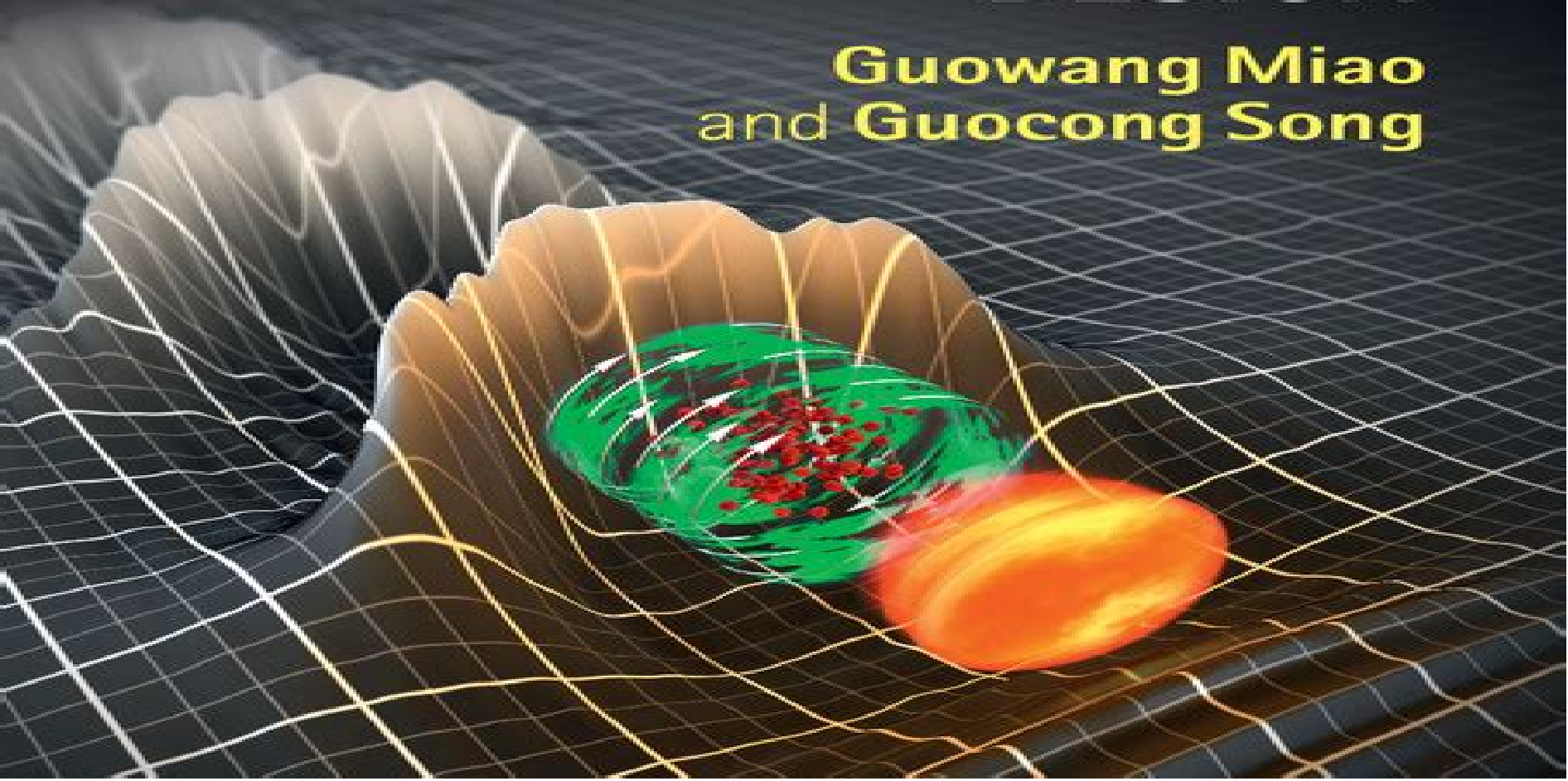


ENERGY AND SPECTRUM EFFICIENT WIRELESS NETWORK DESIGN

Guowang Miao
and Guocong Song



Energy And Spectrum Efficient Wireless Network Design

Guowang Miao, Guocong Song



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 *Antenna and Array Technologies for Future Wireless Ecosystems* Yingjie Jay Guo,Richard W. Ziolkowski,2022-07-20 ANTENNA AND ARRAY TECHNOLOGIES FOR FUTURE WIRELESS ECOSYSTEMS Discover a timely and accessible resource on the latest antenna research driving new developments in the field In Antenna and Array Technologies for Future Wireless Ecosystems distinguished academics and authors Drs Y Jay Guo and Richard W Ziolkowski

deliver a cutting edge resource for researchers academics students and engineers who need the latest research findings on the newest challenges facing antenna designers who will be creating the technology that drives future 6G and beyond wireless systems and networks This timely and impactful book offers the fundamental knowledge that will facilitate new research activities in the antennas and applied electromagnetics communities and conveys innovative and practical solutions to many wireless industry problems Its international cohort of leading authors delivers their findings on a variety of advanced topics in antenna and array research including metasurface antennas electrically small directive antennas RF millimeter wave and THz antennas and arrays atom based sensors and arrays of quantum emitters The book also includes resources that cover the important topics A thorough introduction to various intelligent and low cost beam scanning beamforming and beam reconfigurable array technologies to support dynamic networking of future systems An exploration of advanced techniques for analyzing large arrays as well as an examination of advanced antenna in package technologies for future mm wave systems Discussions of the latest research on electrically small and extremely large hybrid antenna arrays and photonic beamforming networks to address spectrum scarcity in future systems Low form factor low energy consumption and wireless power transfer antennas for the Internet of Things IoT This book is the companion of the Wiley book by the same authors **Advanced Antenna Array Engineering for 6G and Beyond Wireless Communications** Perfect for antenna engineers in academia and industry **Antenna and Array Technologies for Future Wireless Ecosystems** will also be an essential resource in the libraries of senior undergraduate and graduate students studying antenna engineering applied electromagnetics and seeking a one stop reference for state of the art global antenna and antenna array research activities **Interference**

Mitigation and Energy Management in 5G Heterogeneous Cellular Networks Yang, Chungang, Li, Jiandong, 2016-11-22 In recent years wireless networks have become more ubiquitous and integrated into everyday life As such it is increasingly imperative to research new methods to boost cost effectiveness for spectrum and energy efficiency **Interference Mitigation and Energy Management in 5G Heterogeneous Cellular Networks** is a pivotal reference source for the latest research on emerging network architectures and mitigation technology to enhance cellular network performance and dependency Featuring extensive coverage across a range of relevant perspectives and topics such as interference alignment resource allocation and high speed mobile environments this book is ideally designed for engineers professionals practitioners upper level students and academics seeking current research on interference and energy management for 5G heterogeneous cellular networks **5G Heterogeneous Networks** Bo Rong, Xuesong Qiu, Michel Kadoch, Songlin Sun, Wenjing Li, 2016-06-03 This SpringerBrief provides state of the art technical reviews on self organizing and optimization in 5G systems It covers the latest research results from physical layer channel modeling to software defined network SDN architecture This book focuses on the cutting edge wireless technologies such as heterogeneous networks HetNets self organizing network SON smart low power node LPN 3D MIMO and more It will help researchers from both the academic and

industrial worlds to better understand the technical momentum of 5G key technologies Communication and Computing Systems B.M.K. Prasad,Krishna Kant Singh,Neelam Ruhil,Karan Singh,Richard O'Kennedy,2017-02-15 This book is a collection of accepted papers that were presented at the International Conference on Communication and Computing Systems ICCCS 2016 Dronacharya College of Engineering Gurgaon September 9 11 2016 The purpose of the conference was to provide a platform for interaction between scientists from industry academia and other areas of society to discuss the current advancements in the field of communication and computing systems The papers submitted to the proceedings were peer reviewed by 2 3 expert referees This volume contains 5 main subject areas 1 Signal and Image Processing 2 Communication Computer Networks 3 Soft Computing Intelligent System Machine Vision and Artificial Neural Network 4 VLSI Embedded System 5 Software Engineering and Emerging Technologies *Green Mobile Networks* Nirwan Ansari,Tao Han,2017-05-30 Green communications is a very hot topic As mobile networks evolve in terms of higher rates throughput a consequent impact on operating costs is due to aggregate network energy consumption As such design on 4G networks and beyond have increasingly started to focus on energy efficiency or so called green networks Many techniques and solutions have been proposed to enhance the energy efficiency of mobile networks yet no book has provided an in depth analysis of the energy consumption issues in mobile networks nor has detailed theories tools and solutions for solving the energy efficiency problems This book presents the techniques and solutions for enhancing energy efficiency of future mobile networks and consists of three major parts The first part presents a general description of mobile network evolution in terms of both capacity and energy efficiency The second part discusses the advanced techniques to green mobile networks The third part discusses the solutions that enhance mobile network energy efficiency as well as provides future directions Whilst the reader is expected to have basic knowledge of wireless communications the authors present a brief introduction of the evolution of mobile networks providing the knowledge base for understanding the content of the book In addition complicated network problems are illustrated using simple examples This will help the reader understand the concept and intuition of various techniques and solutions Incorporates the latest research results from both academia and industry providing an up to date overview of existing technologies and solutions on making mobile networks greener Consists of three sections with a gradually increasing technical depth on green mobile networks providing the reader with a systematic view of the research area and helping those with different technical backgrounds to better understand the content Covers existing enabling technologies for green mobile networking including an innovative discussion of state of the art solutions and algorithms

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

Proceedings of the 2nd International Conference on Internet of Things, Communication and Intelligent Technology Jian Dong, Long Zhang, Deqiang Cheng, 2024-04-25 This conference discussed the application of communication and IoT engineering in the era of smart technologies from the perspective of disciplinary integration combining the theory and relevant algorithms of IoT and smart technologies The book encompasses the entire spectrum of IoT solutions from IoT to cybersecurity It explores communication systems including sixth generation 6G mobile D2D and M2M communications It also focuses on intelligent technologies especially information systems modeling and simulation In addition it explores the areas of pervasive computing distributed computing high performance computing pervasive and mobile computing and cloud computing

Handbook of Smart Energy Systems Michel Fathi, Enrico Zio, Panos M. Pardalos, 2023-08-04 This handbook analyzes and develops methods and models to optimize solutions for energy access for industry and the general world population alike in terms of reliability and sustainability With a focus on improving the performance of energy systems it brings together state of the art research on reliability enhancement intelligent development simulation and optimization as well as sustainable development of energy systems It helps energy stakeholders and professionals learn the methodologies needed to improve the reliability of energy supply and demand systems achieve more efficient long term operations deal with uncertainties in energy systems and reduce energy emissions Highlighting novel models and their applications from leading experts in this important area this book will appeal to researchers students and engineers in the various domains of smart energy systems and encourage them to pursue research and development in this exciting and highly relevant field

Green Communication and Networking Joel José Rodrigues, Liang Zhou, Min Chen, Aravind Kailas, 2012-08-22 This book constitutes the thoroughly refereed post conference proceedings of the First International Joint Conference on Green Communication and Networking GreeNets 2011 held in Colmar France on October 5 7 2011 The 16 revised full papers presented were carefully selected and reviewed from numerous submissions and explain the scope and challenges of designing building and deploying GreeNets In this regard the conference aims to establish a forum to bring together research professionals from diverse fields including green mobile networks system architectures networking communication protocols applications test bed and prototype traffic balance and energy efficient cooperation transmission system and application issues related to GreenNets

Cognitive Radio Sensor Networks: Applications, Architectures, and Challenges Rehmani, Mubashir Husain, Faheem, Yasir, 2014-06-30 This book examines how wireless sensor nodes with cognitive radio capabilities can address these network challenges and improve the spectrum utilization presenting a broader picture on the applications architecture challenges and open research directions in the area of WSN research Provided by publisher

Energy Conservation in Residential, Commercial, and Industrial Facilities Hossam A. Gabbar, 2018-06-27 An authoritative and comprehensive guide to managing energy conservation in infrastructures Energy Conservation in Residential Commercial

and Industrial Facilities offers an essential guide to the business models and engineering design frameworks for the implementation of energy conservation in infrastructures. The presented models of both physical and technological systems can be applied to a wide range of structures such as homes, hotels, public facilities, industrial facilities, transportation, and water energy supply systems. The authors noted experts in the field explore the key performance indicators that are used to evaluate energy conservation strategies and the energy supply scenarios as part of the design and operation of energy systems in infrastructures. The text is based on a systems approach that demonstrates the effective management of building energy knowledge and supports the simulation evaluation and optimization of several building energy conservation scenarios. In addition, the authors explore new methods of developing energy semantic network (ESN) superstructures, energy conservation optimization techniques, and risk-based life cycle assessments. This important text defines the most effective ways to model the infrastructure of physical and technological systems. Includes information on the most widely used techniques in the validation and calibration of building energy simulation. Offers a discussion of the sources, quantification, and reduction of uncertainty. Presents a number of efficient energy conservation strategies in infrastructure systems, including HVAC, lighting, appliances, transportation, and industrial facilities. Describes illustrative case studies to demonstrate the proposed energy conservation framework, practices, methods, engineering designs, control, and technologies. Written for students studying energy conservation as well as engineers designing the next generation of buildings. **Energy Conservation in Residential, Commercial, and Industrial Facilities** offers a wide-ranging guide to the effective management of energy conservation in infrastructures. **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

Circular Economy for Buildings and Infrastructure

Jian Zuo,Liyin Shen,Ruidong Chang,2024-05-03 This edited volume covers theoretical and practical aspects of circular economy in building development offering chapters dealing with topics such as material design affordability of housing development waste management and recycling smart metering and more A particular focus is placed on various stakeholders points of view The book s chapters are co developed and contributed by multidisciplinary teams including both academics and industry practitioners The case study oriented approach taken here helps to facilitate the reader s understanding of how building sustainability can be achieved in the context of circular economy The building industry has significant environmental social and economic impacts As one of the biggest energy consumers and carbon emitters building sustainability has attracted wide attention globally Building projects and their associated activities consume a large amount of energy natural resources and water while producing a large proportion of wastes throughout their lifecycles The traditional linear approach of make use and dispose has been heavily criticized whilst the circular approach has gained momentum Indeed circular economy has emerged as one of key principles to manage sustainability related issues by means of focusing on the circularity of resources as well as the cost implications

Data Driven Mathematical Modeling in Agriculture

Sabyasachi Pramanik,Sandip Roy,Rajesh Bose,2024-08-23 The research in this book looks at the likelihood and level of use of implemented technological components with regard to the adoption of different precision agricultural technologies To identify the variables affecting farmers choices to embrace more precise technology zero inflated Poisson and negative binomial count data regression models are utilized Outcomes from the count data analysis of a random sample of various farm operators show that various aspects including farm dimension farmer demographics soil texture urban impacts farmer position of liabilities and position of the farm in a state were significantly associated with the approval severity and likelihood of precision farming technologies Technical topics discussed in the book include Precision agriculture Machine learning Wireless sensor networks IoT Deep learning

Networks of the Future

Mahmoud Elkhodr,Qusay F. Hassan,Seyed Shahrestani,2017-10-16 With the ubiquitous diffusion of the IoT Cloud Computing 5G and other evolved wireless technologies into our daily lives the world will see the Internet of the future expand ever more quickly Driving the progress of communications and connectivity are mobile and wireless technologies including traditional WLANs technologies and low ultra power short and long range technologies These technologies facilitate the communication among the growing number of connected devices leading to the generation of huge volumes of data Processing and analysis of such big data brings about

many opportunities as well as many challenges such as those relating to efficient power consumptions security privacy management and quality of service This book is about the technologies opportunities and challenges that can drive and shape the networks of the future Written by established international researchers and experts Networks of the Future answers fundamental and pressing research challenges in the field including architectural shifts concepts mitigation solutions and techniques and key technologies in the areas of networking The book starts with a discussion on Cognitive Radio CR technologies as promising solutions for improving spectrum utilization and also highlights the advances in CR spectrum sensing techniques and resource management methods The second part of the book presents the latest developments and research in the areas of 5G technologies and Software Defined Networks SDN Solutions to the most pressing challenges facing the adoption of 5G technologies are also covered and the new paradigm known as Fog Computing is examined in the context of 5G networks The focus next shifts to efficient solutions for future heterogeneous networks It consists of a collection of chapters that discuss self healing solutions dealing with Network Virtualization QoS in heterogeneous networks and energy efficient techniques for Passive Optical Networks and Wireless Sensor Networks Finally the areas of IoT and Big Data are discussed including the latest developments and future perspectives of Big Data and the IoT paradigms

Encyclopedia of Information Science and Technology, Third Edition Khosrow-Pour, D.B.A., Mehdi, 2014-07-31 This 10 volume compilation of authoritative research based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities prospective solutions and future directions in the field of information science and technology Provided by publisher

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