

SPRINGER BRIEFS IN  
ELECTRICAL AND COMPUTER ENGINEERING

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# Resource Allocation in Unlicensed Long Term Evolution HetNets

# Evolution Springerbriefs Electrical Computer Engineering

**Mohammad A. Matin**



## **Evolution Springerbriefs Electrical Computer Engineering:**

**Evolution of Smart Grids** Zubair Md. Fadlullah, Nei Kato, 2015-11-13 This SpringerBrief explores the opportunities and challenges posed by the smart grid The evolution of the smart grid should allow consumers to directly communicate with their utility provider However complex issues such as architecture with legacy support varying demand response and load management varying price of power and so forth can lead to various decision making challenges It is essential to identify the scope and challenges of the smart grid in a comprehensive manner so as to ensure efficient delivery of sustainable economic and secure electricity supplies This book provides an overview of the smart grid and its key advances in architecture distribution management demand side response and load balancing smart automation electric storage power loss minimization and security Readers interested in a basic knowledge of electric grid and communication networks will find Evolution of Smart Grids useful Readers who want more insight on smart grid research will also find this book a valuable resource

**Resource Allocation in Unlicensed Long Term Evolution HetNets** Huaqing Zhang, Sami Khairy, Lin X. Cai, Zhu Han, 2017-12-29 This SpringerBrief investigates cross layer resource allocation in unlicensed LTE Long Term Evolution HetNets Specifically the authors study and cover the radio access management of unlicensed LTE to allow efficient spectrum utilization and harmonious coexistence with other unlicensed systems in this brief Efficient radio access protocols are developed to allow unlicensed LTE users to fair share channel access with unlicensed users in different systems including Wi Fi and unlicensed LTE of other operators An analytical model is developed to study the performance of the proposed protocols To achieve efficient spectrum sharing among various unlicensed users the authors further formulate a resource allocation problem based on Nobel Prize winning game theory framework and propose efficient algorithms to achieve the maximal user utility Opportunistic traffic offloading from licensed band to unlicensed bands is also investigated based on the network formation game By exploiting the characteristics of mobile social networks the offloading performance can be further enhanced This brief targets researchers and engineers from both academia and industry interested in the development of LTE over unlicensed bands as well as the design and implementation of cross layer radio resource management Students studying electrical engineering and computer science will also find this brief useful for their studies

**Long Term Evolution in Unlicensed Bands** Quang-Dung Ho, Daniel Tweed, Tho Le-Ngoc, 2016-10-26 This SpringerBrief focuses on the coexistence concerns emerging in LTE networks using unlicensed frequency bands It provides a comprehensive review on LTE networks and their unavoidable need for enhanced capacity to meet the demands for future applications including a need for low cost options LTE using unlicensed frequency U LTE is then introduced as the most promising solution and discussed from various perspectives to unveil its benefits challenges and requirements for coexistence with the widely deployed IEEE 802 11 Wi Fi technology Meeting these coexistence requirements is the most important factor for the acceptance of U LTE and the majority of this brief explores the big picture concerns and existing

solutions related to coexistence aware medium access protocols for background knowledge A proposed network aware adaptive listen before talk protocol is presented and evaluated Finally the authors identify a number of open technical questions and potential research issues in U LTE This SpringerBrief is suitable for telecom engineers researchers and academic professionals with valuable knowledge and potential working or research directions when designing and developing medium access protocols for next generation wireless access networks *Wi-Fi 7* Gang Cheng,Zhihong Qian,Yiming Jiang,Zhijie Yang,Thirumurthy Rajamanickam,2024-12-06 This Wi Fi 7 technology book serves as an essential and comprehensive professional reference for the academics and industry professionals covering the entire Wi Fi series across various generations It offers a primary focus on the latest advancements in industrial Wi Fi 7 principles and specifications Additionally the book provides valuable insights into innovative strategies for Wi Fi 7 product development strategies testing methodologies and diverse applications across industrial and home environments It serves as a practical resource for those planning to adopt Wi Fi 7 technology in the design and development processes By reading this book you will not only gain insights into the state of the art of Wi Fi 7 technology but also develop a deep understanding of the origins the process of developing Wi Fi 7 products various applications and solutions where Wi Fi 7 can be utilized and the current state of the industry in relation to Wi Fi 7 technology compared to the other wireless technologies Each section of this book follows a systematic approach beginning with an introduction to the technology concept and offering numerous concrete examples for illustration purpose Abundant diagrams and pictures have been included in the book s design to facilitate clear and quick comprehension of the topics for readers **The Evolution of Society** Erik W. Aslaksen,2023-02-17 This book covers the work of Erik W Aslaksen who continues to develop the view of society and its evolution published in earlier work *The Social Bond* Springer 2018 *The Stability of Society* Springer 2020 and *Measures of Social Evolution* Springer 2021 bringing together core material of that work with the results of recent investigations in order to present the evolution of society as an integrated and continuous story leading right up to the present time A story of human action driven by our beliefs desires and an ideology arising out of our ability to transform and exploit our environment through the development and application of technology The distinguishing feature of the work is the treatment of society as an information processing system and applying the system methodology for handling complexity as it is applied e g in engineering This focus on information is particularly pertinent in the current circumstances where the world has arrived at a critical point in its history through the conjunction of a number of issues that appear to be spiralling out of control Global warming and the associated climate change the destruction of our environment through such processes as land clearing and industrialisation with associated loss of biodiversity the rapidly increasing visibility of the inequality in the quality of life with associated tensions and above all the determination of the US led Western alliance to cling to its hegemonial role apparently at all cost With the sophistication and proliferation of nuclear weapons the latter has the potential to bring on the end of civilisation as we know

it The resolution of any of these issues depends on the information available to all parties involved and hence the availability and quality of information is seen as the crucial and overarching issue of the present time A number of aspects of this issue including the role of education economic inequality and the control of the media are treated in some detail and proposals for some small steps in the right direction are put forward *Social Cognitive Radio Networks* Xu Chen,Jianwei

Huang,2015-01-19 This brief presents research results on social cognitive radio networks a transformational and innovative networking paradigm that promotes the nexus between social interactions and cognitive radio networks Along with a review of the research literature the text examines the key motivation and challenges of social cognitive radio network design Three socially inspired distributed spectrum sharing mechanisms are introduced adaptive channel recommendation mechanism imitation based social spectrum sharing mechanism and evolutionarily stable spectrum access mechanism The brief concludes with a discussion of future research directions which ascertains that exploiting social interactions for distributed spectrum sharing will advance the state of the art of cognitive radio network design spur a new line of thinking for future wireless networks and enable novel wireless service and applications **Communication Systems for Electrical**

**Engineers** Mohammad A. Matin,2017-12-28 This book is written as a very concise introduction for students taking a first course in communication systems It provides the reader with fundamentals of digital communication systems and disseminates the essentials needed for the understanding of wire and wireless communication systems for Electrical Engineers It covers important topics right from the beginning of the subject which communication engineers must understand Example problems in each chapter will help them in understanding the materials well The study of data networking will include multiple access reliable packet transmission routing and protocols of the internet The concepts taught in class will be discussed in the context of aerospace communication systems aircraft communications satellite communications The book includes example problems in each chapter to help the reader in understanding the materials well

Applied Soft Computing and Communication Networks Sabu M. Thampi,Jaime Lloret Mauri,Xavier Fernando,Rajendra Boppana,S. Geetha,Axel Sikora,2021-07-01 This book constitutes thoroughly refereed post conference proceedings of the International Applied Soft Computing and Communication Networks ACN 2020 held in VIT Chennai India during October 14 17 2020 The research papers presented were carefully reviewed and selected from several initial submissions The book is directed to the researchers and scientists engaged in various fields of intelligent systems **Computer Vision** Jinfeng

Yang,Qinghua Hu,Ming-Ming Cheng,Liang Wang,Qingshan Liu,Xiang Bai,Deyu Meng,2017-12-07 This three volume set CCIS 771 772 773 constitutes the refereed proceedings of the CCF Chinese Conference on Computer Vision CCCV 2017 held in Tianjin China in October 2017 The total of 174 revised full papers presented in three volumes were carefully reviewed and selected from 465 submissions The papers are organized in the following topical sections biological vision inspired visual method biomedical image analysis computer vision applications deep neural network face and posture analysis image and

video retrieval image color and texture image composition image quality assessment and analysis image restoration image segmentation and classification image based modeling object detection and classification object identification photography and video robot vision shape representation and matching statistical methods and learning video analysis and event recognition visual salient detection

**Resource Management for Heterogeneous Networks in LTE Systems** Rose Qingyang Hu, Yi Qian, 2014-03-21 This SpringerBrief provides an in depth look at the key issues that affect the performance of heterogeneous networks and presents schemes that can effectively tackle these issues In particular this book discusses unbalanced traffic load among the macro and micro Base Stations BSs caused by the transmit power disparity and a load balancing based mobile association scheme to balance the traffic load among the macro and micro BSs This book also introduces a fractional frequency reuse FFR scheme with proper power control to help reduce interference at the UEs which are most vulnerable to such intra cell interference The last section investigates radio resource allocation issues for heterogeneous networks with cooperative relays and proposes a resource allocation framework that could achieve proportional fairness among the UEs Numerical results are provided to demonstrate the effectiveness of the proposed solutions in tackling the problem and improving network performance Resource Management for Heterogeneous Networks in LTE A Systems is designed for researchers and professionals working in networking and resource management The content is also valuable for advanced level students in computer science and electrical engineering

**Transportation and Power Grid in Smart Cities** Hussein T. Mouftah, Melike Erol-Kantarci, Mubashir Husain Rehmani, 2018-11-28 With the increasing worldwide trend in population migration into urban centers we are beginning to see the emergence of the kinds of mega cities which were once the stuff of science fiction It is clear to most urban planners and developers that accommodating the needs of the tens of millions of inhabitants of those megalopolises in an orderly and uninterrupted manner will require the seamless integration of and real time monitoring and response services for public utilities and transportation systems Part speculative look into the future of the world s urban centers part technical blueprint this visionary book helps lay the groundwork for the communication networks and services on which tomorrow s smart cities will run Written by a uniquely well qualified author team this book provides detailed insights into the technical requirements for the wireless sensor and actuator networks required to make smart cities a reality

**Emerging Trends in Communication Networks** Syed Faraz Hasan, 2014-06-06 This book covers the state of the art in communication networks with the help of illustrative diagrams and recent references published in reputed journals and magazines The book gives readers a glimpse into the next generation of communication networks It explores topics that are currently in the research phase and or are expected to be deployed in recent future such as LTE networks and IPv6 networks This book is written for students researchers who wish to come up to date with the recent trends in telecommunications

**A Brief Introduction to Continuous Evolutionary Optimization** Oliver Kramer, 2013-12-04 Practical optimization problems are often hard to solve in particular when they are black boxes and no

further information about the problem is available except via function evaluations This work introduces a collection of heuristics and algorithms for black box optimization with evolutionary algorithms in continuous solution spaces The book gives an introduction to evolution strategies and parameter control Heuristic extensions are presented that allow optimization in constrained multimodal and multi objective solution spaces An adaptive penalty function is introduced for constrained optimization Meta models reduce the number of fitness and constraint function calls in expensive optimization problems The hybridization of evolution strategies with local search allows fast optimization in solution spaces with many local optima A selection operator based on reference lines in objective space is introduced to optimize multiple conflictive objectives Evolutionary search is employed for learning kernel parameters of the Nadaraya Watson estimator and a swarm based iterative approach is presented for optimizing latent points in dimensionality reduction problems Experiments on typical benchmark problems as well as numerous figures and diagrams illustrate the behavior of the introduced concepts and methods

**Speech Processing and Soft Computing** Sid-Ahmed Selouani, 2011-09-02 Speech Processing and Soft Computing includes coverage of synergy between speech technology and bio inspired soft computing methods Through practical cases the author explores dissects and examines how soft computing may complement conventional techniques in speech enhancement and speech recognition in order to provide robust systems The material is especially useful to graduate students and experienced researchers who are interested in expanding their horizons and investigating new research directions through review of the theoretical and practical settings of soft computing methods in very recent speech applications

Computational Intelligence and Biomedical Signal Processing Mitul Kumar Ahirwal, Anil Kumar, Girish Kumar Singh, 2021-05-25 This book presents an interdisciplinary paradigms of computational intelligence techniques and biomedical signal processing The computational intelligence techniques outlined in the book will help to develop various ways to enhance and utilize signal processing algorithms in the field of biomedical signal processing In this book authors have discussed research discoveries and innovations in computational intelligence signal processing and biomedical engineering that will be beneficial to engineers working in the field of health care systems The book provides fundamental and initial level theory and implementation tools so that readers can quickly start their research in these interdisciplinary domains

*Handbook of Advanced Performability Engineering* Krishna B. Misra, 2020-11-16 This book considers all aspects of performability engineering providing a holistic view of the activities associated with a product throughout its entire life cycle of the product as well as the cost of minimizing the environmental impact at each stage while maximizing the performance Building on the editor's previous Handbook of Performability Engineering it explains how performability engineering provides us with a framework to consider both dependability and sustainability in the optimal design of products systems and services and explores the role of performability in energy and waste minimization raw material selection increased production volume and many other areas of engineering and production The book discusses a range of new ideas concepts

disciplines and applications in performability including smart manufacturing and Industry 4.0 cyber physical systems and artificial intelligence digital transformation of railways and asset management Given its broad scope it will appeal to researchers academics industrial practitioners and postgraduate students involved in manufacturing engineering and system and product development

**User-Centric Ultra-Dense Networks for 5G** Shanzhi Chen, Fei Qin, Bo Hu, Xi Li, Zhonglin Chen, Jiamin Liu, 2017-07-25 This is the first book to introduce UUDN for 5G including the concept challenges architecture and key technologies The new network architecture based on de cellular and user centric is proposed with three kinds of decoupling user plane and control plane decoupling from radio access control and transmission decoupling from network local service and network service decoupling Key characteristics of UUDN are provided including four aspects Intelligent network knows user Moving network follows user Dynamic network serves user and Secured network protects user Four promising technology directions are discussed in detail including dynamic APs grouping DAPGing method intelligent networking advanced interference management and user centric security The authors also include a UUDN solution illustrated with numerology and evaluation results as a practical example Finally further research directions of UUDN are analyzed This book gives an overall introduction of UUDN for people who are interested and just begin their study as well as some suggestions on further research for experts involved in academic industrial and standardization activities on relative fields

**Opportunistic Spectrum Utilization in Vehicular Communication Networks** Nan Cheng, Xuemin (Sherman) Shen, 2015-08-04 This brief examines current research on improving Vehicular Networks VANETs examining spectrum scarcity due to the dramatic growth of mobile data traffic and the limited bandwidth of dedicated vehicular communication bands and the use of opportunistic spectrum bands to mitigate congestion It reviews existing literature on the use of opportunistic spectrum bands for VANETs including licensed and unlicensed spectrum bands and a variety of related technologies such as cognitive radio WiFi and device to device communications Focused on analyzing spectrum characteristics designing efficient spectrum exploitation schemes and evaluating the data delivery performance when utilizing different opportunistic spectrum bands the results presented in this brief provide valuable insights on improving the design and deployment of future VANETs

**Resource Management for Heterogeneous Wireless Networks** Amila Tharaperiya Gamage, Xuemin (Sherman) Shen, 2017-08-18 This book provides an in depth discussion on how to efficiently manage resources of heterogeneous wireless networks and how to design resource allocation algorithms to suit real world conditions Efficiently managing resources of the networks is more crucial now than ever before to meet users rapidly increasing demand for higher data rates better quality of service QoS and seamless coverage Some of the techniques that can be incorporated within heterogeneous wireless networks to achieve this objective are interworking of the networks user multi homing and device to device D2D communication Designing resource allocation algorithms to suit real world conditions is also important as the algorithms should be deployable and perform well in real networks For example two of the conditions



considered in this book are resource allocation intervals of different networks are different and small cell base stations have limited computational capacity To address the first condition resource allocation algorithms for interworking systems are designed to allocate resources of different networks at different time scales To address the second condition resource allocation algorithms are designed to be able to run at cloud computing servers More of such conditions algorithms designed to suit these conditions modeling techniques for various networks and performance analysis of the algorithms are discussed in the book This book concludes with a discussion on the future research directions on the related fields of study Advanced level students focused on communication and networking will use this book as a study guide Researchers and experts in the fields of networking converged networks small cell networks resource management and interference management as well as consultants working in network planning and optimization and managers executives and network architects working in the networking industry will also find this book useful as a reference

**Brain-Computer Interface Research** Christoph Guger, Brendan Z. Allison, Günter Edlinger, 2013-03-26 Brain computer interfaces BCIs are rapidly developing into a mainstream worldwide research endeavor With so many new groups and projects it can be difficult to identify the best ones This book summarizes ten leading projects from around the world About 60 submissions were received in 2011 for the highly competitive BCI Research Award and an international jury selected the top ten This Brief gives a concise but carefully illustrated and fully up to date description of each of these projects together with an introduction and concluding chapter by the editors

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