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Spectrum Trading in Multi-Hop Cognitive Radio Networks

Springer

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Miao Pan,Ming Li,Pan Li,Yuguang Fang

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Spectrum Trading in Multi-Hop Cognitive Radio Networks Miao Pan,Ming Li,Pan Li,Yuguang Fang,2015-12-08 This SpringerBrief focuses on spectrum trading designs in multi hop cognitive radio networks It starts with the motivation for spectrum trading and the review of existing spectrum trading designs Then it presents a novel CRN architecture for spectrum trading considering spectrum trading s economic features and wireless nature Under this network architecture it extends current single hop per user based spectrum trading design into a multi hop transmission opportunity based one and further into a session based one while having economic properties guaranteed This SpringerBrief not only provides a good review of current spectrum trading designs it also touches on the cutting edge interdisciplinary spectrum trading research on disparate fields of modeling network architecture design optimization theories statistics and economic theories Advanced level students studying computer science electrical and computer engineering and economics wireless network planners and wireless spectrum engineers will find this book a useful tool *Multi-Agent Systems and Agreement Technologies* Natalia Criado Pacheco,Carlos Carrascosa,Nardine Osman,Vicente Julián Inglada,2017-06-22 This book constitutes the revised selected papers from the 14th European Conference on Multi Agent Systems EUMAS 2016 and the Fourth International Conference on Agreement Technologies AT 2016 held in Valencia Spain in December 2016 The 43 papers and 2 invited papers presented in this volume were carefully reviewed and selected from 68 submissions The papers cover thematic areas as agent and multi agent system models algorithms applications simulations theoretical studies and for AT the thematic areas are algorithms **Broadcast Design in Cognitive Radio Ad Hoc Networks** Yi Song,Jiang Xie,2014-12-04 This SpringerBrief investigates the special challenges of broadcast design in cognitive radio CR ad hoc networks It introduces two broadcast protocols in CR ad hoc networks a quality of service based broadcast protocol under blind information and a fully distributed broadcast protocol with collision avoidance A novel unified analytical model is also presented to analyze the performance of the broadcast protocols This is the first book dedicated to the unique broadcast design challenges in CR ad hoc networks The authors also discuss the recent research on the performance analysis of broadcast protocols Broadcast Design In Cognitive Radio Ad Hoc Networks is designed for professionals and researchers working in the wireless networks industry Advanced level students in electrical engineering and computer science especially those focused on wireless networks will find this information very valuable *Cognitive Resource Management for Heterogeneous Cellular Networks* Yongkang Liu,Xuemin (Sherman) Shen,2014-05-07 This Springer Brief focuses on cognitive resource management in heterogeneous cellular networks Het Net with small cell deployment for the LTE Advanced system It introduces the Het Net features presents practical approaches using cognitive radio technology in accommodating small cell data relay and optimizing resource allocation and examines the effectiveness of resource management among small cells given limited coordination bandwidth and wireless channel uncertainty The authors introduce different network characteristics of small cell investigate the mesh of small cell access points in parallel with macrocells in network control and resource management and address resource management in the backhaul with coordination constraints and wireless channel uncertainty The final section of this brief summarizes and provides future research directions for this topic including a proposed framework that has been evaluated through realistic simulations Cognitive Resource Management for Heterogeneous Cellular Networks is designed for researchers and professionals working in wireless communications and networks Advanced level students studying electrical and computer engineering should also find the content helpful *Transportation and Power Grid in Smart Cities* Hussein T. Mouftah,Melike Erol-Kantarci,Mubashir Husain Rehmani,2018-12-28 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 *Dynamic Spectrum Access for Wireless Networks* Danda B. Rawat,Min Song,Sachin Shetty,2015-03-09 This SpringerBrief presents adaptive resource allocation schemes for secondary users for dynamic spectrum access DSA in cognitive radio networks CRNs by considering Quality of Service requirements admission control power rate control interference constraints and the impact of spectrum sensing or primary user interruptions It presents the challenges motivations and applications of the different schemes The authors discuss cloud assisted geolocation aware adaptive resource allocation in CRNs by outsourcing computationally intensive processing to the cloud Game theoretic approaches are presented to solve resource allocation problems in CRNs Numerical results are presented to evaluate the performance of the proposed methods Adaptive Resource Allocation in Cognitive Radio Networks is designed for professionals and researchers working in the area of wireless networks Advanced level students in electrical engineering and computer science especially those focused on wireless networks will find this information helpful **Cognitive Underwater Acoustic Networking Techniques** Dimitri Sotnik,Michael Goetz,Ivor Nissen,2020-09-29 This book summarizes the latest research on cognitive network layer methods and smart adaptive physical layer methods in underwater networks Underwater communication requires extendable and delay tolerant underwater acoustic networks capable of supporting multiple frequency bands data rates and transmission ranges The book also discusses a suitable foreground communication stack for mixed mobile static networks a technology that requires adaptive physical layer waveforms and cognitive network strategies with underlying cooperative and non cooperative robust processes The goal is to arrive at a universally applicable standard in the area of Underwater Internet of Things ISO IEC 30140 30142 30143 The book is the second spin off of the research project RACUN after the first RACUN book Underwater Acoustic Networking Techniques https link springer com book 10 1007 978 3 642 25224 2 *Cooperative Cognitive Radio Networking* Bin Cao,Qinyu Zhang,Jon W. Mark,2016-05-19 This SpringerBrief examines the active cooperation between users of Cooperative Cognitive Radio Networking CCRN exploring the system model enabling techniques and performance The brief provides a systematic study on active cooperation between primary users and secondary users i e CCRN followed by the discussions on research issues and challenges in designing spectrum energy efficient CCRN As an effort to shed light on the design of spectrum energy efficient CCRN they model the CCRN based on orthogonal modulation and orthogonally dual polarized antenna ODPA The resource allocation issues are detailed with respect to both models in terms of problem formulation solution approach and numerical results Finally the optimal communication strategies for both primary and secondary users to achieve spectrum energy efficient CCRN are analyzed **Signal Processing Approaches to Secure Physical Layer Communications in Multi-Antenna Wireless Systems** Y.-W. Peter Hong,Pang-Chang Lan,C.-C. Jay Kuo,2013-09-30 This book introduces various signal processing approaches to enhance physical layer secrecy in multi antenna wireless systems Wireless physical layer secrecy has attracted much attention in recent years due to the broadcast nature of the wireless medium and its inherent vulnerability to eavesdropping While most articles on physical layer secrecy focus on the information theoretic aspect we focus specifically on the signal processing aspects including beamforming and precoding techniques for data transmission and discriminatory training schemes for channel estimation The discussions will cover cases with collocated and with distributed antennas i e relays The topics covered will be of interest to researchers in the signal processing community as well to practitioners and engineers working in this area This book will also review recent works that apply these signal processing approaches to more advanced wireless systems such as OFDM systems multicell systems cognitive radio multihop networks etc This will draw interest from researchers that wish to pursue the topic further in these new directions This book is divided into three parts i data transmission ii channel estimation and iii advanced applications Even though many works exist in the literature on these topics the approaches and perspectives taken were largely diverse This book provides a more organized and systematic view of these designs and to lay a solid foundation for future work in these areas Moreover by presenting the work from a signal processing perspective this book will also trigger more research interest from the signal processing community and further advance the field of physical layer secrecy along the described directions This book allows readers to gain basic understanding of works on physical layer secrecy knowledge of how signal processing techniques can be applied to this area and the application of these techniques in advanced wireless applications *Spectrum Sharing for Wireless Communications* ChunSheng Xin,Min Song,2015-02-26 This SpringerBrief presents intelligent spectrum sharing technologies for future wireless communication systems It explains the widely used opportunistic spectrum access and TV white space sharing which has been approved by the FCC Four new technologies to significantly increase the efficiency of spectrum sharing are also introduced The four technologies presented are Dynamic Spectrum Co Access Incentivized Cooperative Spectrum Sharing On Demand Spectrum Sharing and Licensed Shared Spectrum Access These technologies shed light on future wireless communication systems and pave the way for innovative spectrum sharing with increased spectrum utilization Increased utilization will allow networks to meet the demand for radio spectrum and promote the growth of wireless industry and national economy Spectrum Sharing is a valuable resource for researchers and professionals working in wireless communications Advanced level students in electrical engineering and computer science will also find this content helpful as a study guide **Game Theoretic Approaches for Spectrum Redistribution** Fan Wu,2014-02-15 This brief examines issues of spectrum allocation for the limited resources of radio spectrum It uses a game theoretic perspective in which the nodes in the wireless network are rational and always pursue their own objectives It provides a systematic study of the approaches that can guarantee the system s convergence at an equilibrium state in which the system performance is optimal or sub optimal The author provides a short tutorial on game theory explains game theoretic channel allocation in clique and in multi hop wireless networks and explores challenges in designing game theoretic mechanisms for dynamic channel redistribution Since designing a completely secure mechanism is extremely expensive or impossible in most of distributed autonomous systems it is more beneficial to study misbehavior of the nodes and develop light weighted game theoretic channel allocation mechanisms With a mix of theoretical and hands on information the brief traces the concepts of game theory the current state of spectrum allocation in wireless networks and future competition for resources Thorough yet accessible the content is ideal for researchers and practitioners working on spectrum redistribution It is also a helpful resource for researchers and advanced level students interested in game theory and wireless communications **Capacity Analysis of Vehicular Communication Networks** Ning Lu,Xuemin (Sherman) Shen,2013-09-21 This SpringerBrief focuses on the network capacity analysis of VANETs a key topic as fundamental guidance on design and deployment of VANETs is very limited Moreover unique characteristics of VANETs impose distinguished challenges on such an investigation This SpringerBrief first introduces capacity scaling laws for wireless networks and briefly reviews the prior arts in deriving the capacity of VANETs It then studies the unicast capacity considering the socialized mobility model of VANETs With vehicles communicating based on a two hop relaying scheme the unicast capacity bound is derived and can be applied to predict the throughput of real world scenarios of VANETs The downlink capacity of VANETs is also investigated in which access infrastructure is deployed to provide pervasive Internet access to vehicles Different alternatives of wireless access infrastructure are considered A lower bound of downlink capacity is derived for each type of access infrastructure The last section of this book presents a case study based on a perfect city grid to examine the capacity cost trade offs of different deployments since the deployment costs of different access infrastructure are highly variable **Cloud Based 5G Wireless**

Networks Yin Zhang,Min Chen,2016-11-09 This SpringerBrief introduces key techniques for 5G wireless networks The authors cover the development of wireless networks that led to 5G and how 5G mobile communication technology 5G can no longer be defined by a single business model or a typical technical characteristic The discussed networks functions and services include Network Foundation Virtualization N FV Cloud Radio Access Networks Cloud RAN and Mobile Cloud Networking MCN The benefits of cloud platforms are examined as are definable networking and green wireless networking Other related and representative projects on 5G are mobile and wireless communications enablers for the Twenty Twenty Information Society Multi hop Cellular Networks Network Function as a Service over Virtualized Infrastructures iJOIN and Nuage Virtualized Services Platform Major applications of 5G range from RAN sharing and Multi Operator Core Networks to mobile convergence Enhancing the user experience by providing smart and customized services 5G will support the explosive growth of big data mobile internet digital media and system efficiency This SpringerBrief is designed for professionals researchers and academics working in networks or system applications Advanced level students of computer science or computer engineering will also find the content valuable

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