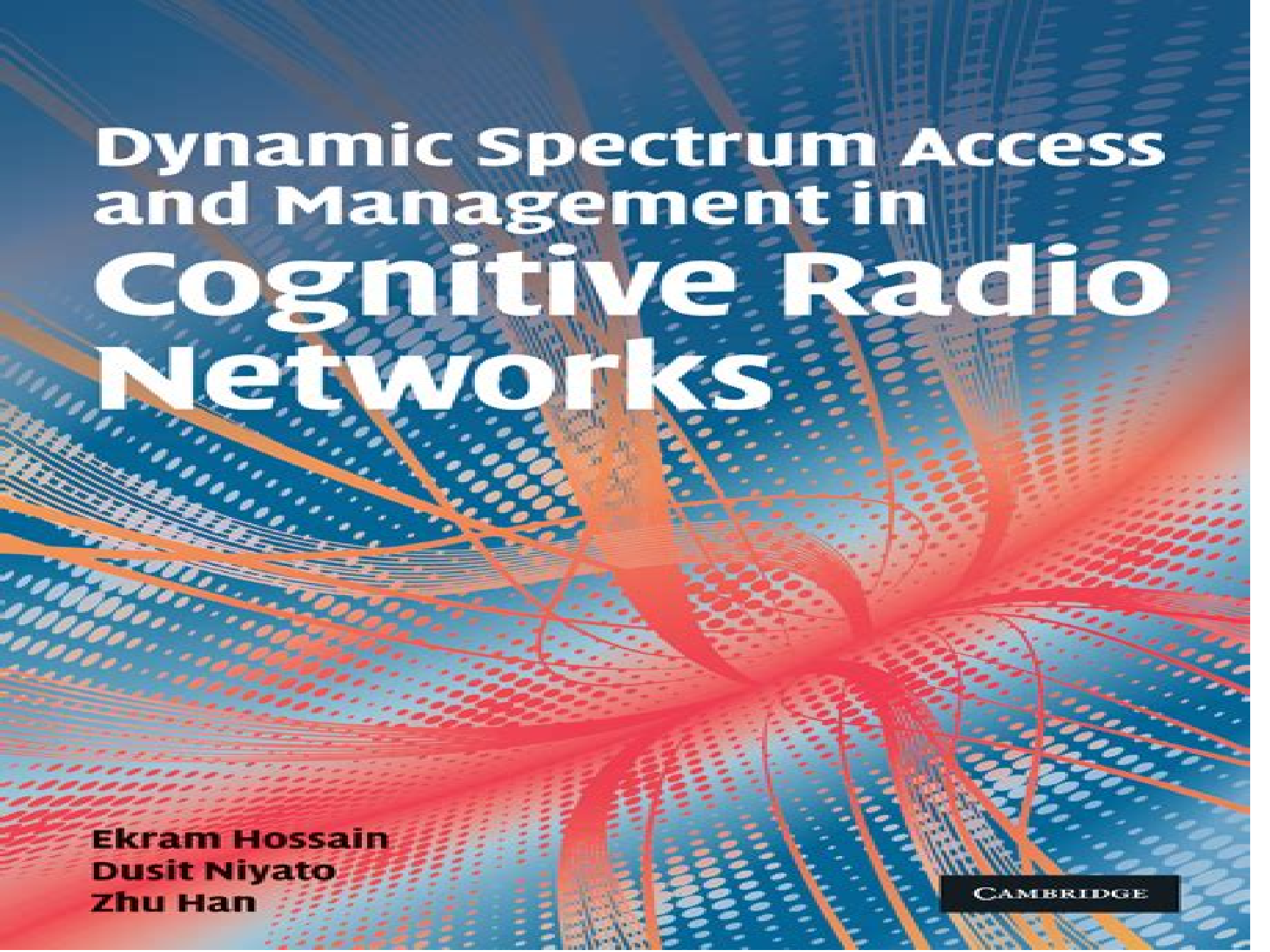




Dynamic Spectrum Access and Management in Cognitive Radio Networks

Ekram Hossain
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Kaabouch, Naima, Hu, Wen-Chen



Dynamic Spectrum Access And Management In Cognitive Radio Networks:

Spectrum Access and Management for Cognitive Radio Networks Mohammad A Matin, 2016-09-16 This book presents cutting edge research contributions that address various aspects of network design optimization implementation and application of cognitive radio technologies It demonstrates how to make better utilization of the available spectrum cognitive radios and spectrum access to achieve effective spectrum sharing between licensed and unlicensed users The book provides academics and researchers essential information on current developments and future trends in cognitive radios for possible integration with the upcoming 5G networks In addition it includes a brief introduction to cognitive radio networks for newcomers to the field *Dynamic Spectrum Access and Management in Cognitive Radio Networks* Ekram

Hossain, Dusit Niyato, Zhu Han, 2014-05-14 An all inclusive introduction to this revolutionary technology presenting the key research issues and state of the art design analysis and optimization techniques *Dynamic Spectrum Access and*

Management in Cognitive Radio Networks Ekram Hossain, Dusit Niyato, Zhu Han, 2009-06-18 An all inclusive introduction to this revolutionary technology presenting the key research issues and state of the art design analysis and optimization techniques *Cognitive Radio and Dynamic Spectrum Access* Lars Berlemann, Stefan Mangold, 2009-07-10 Cognitive Radio

for Dynamic Spectrum Access gives a comprehensive overview of the main concepts behind radio spectrum regulation dynamic spectrum access and cognitive radio Spectrum measurements are introduced to illustrate the inefficiencies in today's spectrum usage and the book also discusses enablers for horizontal and vertical spectrum sharing Among others a game theory based approach for spectrum sharing is described and evaluated Institution and standardisation approaches in academic research and industry are highlighted including IEEE SCC41 802 11k n s y and 802 22 which lead towards commercial exploitation of cognitive radio In conclusion this book looks at the initial steps towards the vision of true cognitive radio and the potential impact on telecommunication business Introduces the benefits and challenges of cognitive radio Presents cognitive radio in research and industry and covers implications for operators from the perspective of a telecom operator Examines how cognitive radio techniques will considerably change the wireless communication market

Radio Resource Allocation and Dynamic Spectrum Access Badr Benmammar, Asma Amraoui, 2013-02-05 We are currently witnessing an increase in telecommunications norms and standards given the recent advances in this field The increasing number of normalized standards paves the way for an increase in the range of services available for each consumer Moreover the majority of available radio frequencies have already been allocated This explains the emergence of cognitive radio CR the sharing of the spectrum between a primary user and a secondary user In this book we will present the state of the art of the different techniques for spectrum access using cooperation and competition to solve the problem of spectrum allocation and ensure better management of radio resources in a radio cognitive context The different aspects of research explored up until now on the applications of multi agent systems MAS in the field of cognitive radio are analyzed in

this book The first chapter begins with an insight into wireless networks and mobiles with special focus on the IEEE 802.22 norm which is a norm dedicated to CR Chapter 2 goes into detail about CR which is a technical field at the boundary between telecommunications and Artificial Intelligence AI In Chapter 3 the concept of the agent from AI is expanded to MAS and associated applications Finally Chapter 4 establishes an overview of the use of AI techniques in particular MAS for its allocation of radio resources and dynamic access to the spectrum in CR Contents 1 Wireless and Mobile Networks 2 Cognitive Radio 3 Multi agent Systems 4 Dynamic Spectrum Access About the Authors Badr Benmammar has been Associate Professor at UABT University Abou Bekr Belkaid Tlemcen Algeria since 2010 and was a research fellow at CNRS LaBRI Laboratory of the University of Bordeaux 1 until 2007 He is currently carrying out research at the Laboratory of Telecommunications of Tlemcen LTT UABT Algeria His main research activities concern the cognitive radio network Quality of Service on mobile and wireless networks end to end signaling protocols and agent technology His work on Quality of Service has led to many publications in journals and conference proceedings Asma Amraoui is currently a PhD candidate she is preparing a doctoral thesis on a topic of research that explores the use of artificial intelligence techniques in cognitive radio networks She is attached to the Laboratory of Telecommunications of Tlemcen LTT in Algeria

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

QoS and Energy Management in Cognitive Radio Network Vishram Mishra, Jimson Mathew, Chiew-Tong Lau, 2016-10-25 This book covers the important aspects involved in making cognitive radio devices portable mobile and green while also extending their service life At the same time it presents a variety of established theories and practices concerning cognitive radio from academia and industry Cognitive radio can be utilized as a backbone communication medium for wireless devices To effectively achieve its commercial application various aspects of quality of service and energy management need to be addressed The topics covered in the book include energy management and quality of service provisioning at Layer 2 of the protocol stack from the perspectives of medium access control spectrum selection and self coexistence for cognitive radio 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 *Cognitive Radio Networks* Yang Xiao, Fei Hu, 2008-12-24 Fueled by ongoing and increasing consumer demand the explosive growth in spectrum based communications continues to tax the finite resources of the available spectrum One possible solution Cognitive Radio Network CRN allows unlicensed users opportunistic access to licensed bands without interfering with existing users Although some initial s *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 **Contribution to Spectrum Management in Cognitive Radio Networks: a Cognitive Management Framework** Faouzi Bouali, 2014 To overcome the current under utilization of spectrum resources the CR Cognitive Radio paradigm has gained an increasing interest to perform the so called Dynamic Spectrum Access DSA In this

respect Cognitive Radio networks CRNs have been strengthened with cognitive management support to push forward their deployment and commercialization This dissertation has assessed the relevance of exploiting several cognitive management functionalities in various scenarios and case studies Specifically this dissertation has constructed a generic cognitive management framework based on the fittingness factor concept to support spectrum management in CRNs Under this framework the dissertation has addressed two of the most promising CR applications namely an Opportunistic Spectrum Access OSA to licensed bands and open sharing of license exempt bands In the former application several strategies that exploit temporal statistical dependence between primary activity inactivity durations to perform a proactive spectrum selection have been discussed A set of guidelines to select the most relevant strategy for a given environment have been provided In the latter application a fittingness factor based spectrum selection strategy has been proposed to efficiently exploit the different bands Several formulations of the fittingness factor have been compared and their relevance have been assessed under different settings Drawing inspiration from these applications a more general proactive strategy exploiting a characterization of spectrum resources at both the time and frequency domains has been developed to jointly assist spectrum selection SS and spectrum mobility SM functionalities Several variants of the proposed strategy each combining different choices and options of implementation have been compared to identify which of its components have the most significant impact on performance depending on the working conditions of the CRN To assess rationality of the proposed strategy with respect to other strategies a cost benefit analysis has been conducted to confront the introduced gain in terms of user satisfaction level to the incurred cost in terms of signaling amount Finally the dissertation has conducted an analysis of practicality aspects in terms of robustness to environment uncertainty and applicability to realistic environments With respect to the former aspect robustness has been assessed in front of two sources of uncertainty namely imperfection of the acquisition process and non stationarity of the environment and additional functionalities have been developed when needed to improve robustness With respect to the latter the proposed framework has been applied to a Digital Home DH environment to validate the obtained key findings under realistic conditions

Resource Management in Future Internet Vladimir Poulkov, Ramjee Prasad, 2022-09-01 Future Internet and Internet of Things set out a new vision for connectivity real time applications and services Data procured from the use of a large number of heterogeneous physical and virtual devices must be real time processed and analyzed for the goal of effective resource management and control while maintaining the required performance and quality of service In addition the development of the communication networks towards heterogeneous and new generation broadband connectivity brings up new requirements towards the way of managing and controlling of the available resources Thus for the effective resource management in future internet novel approaches must be proposed and developed It could be seen that recently a considerable amount of effort has been devoted on behalf of industry and academia towards the research and design of methods for effective management of resources in

internet and multimedia communications The book reviews some specific topics in the field of future internet and internet technologies that are closely related to the issue of finding effective solutions for the management of resources and performance Technical topics discussed in the book include Future Internet Technologies Internet of things Multimedia Networks Wireless Access Networks Software Communications Positioning and Localization in Communications Resource Management Resource Management in future Internet is recommended for specialists working in the field of information and communication industries as well as academic staff and researchers working in the field of multimedia communications and telecommunication networks

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

Dynamic Spectrum Management Ying-Chang Liang, 2019-11-02 This open access book authored by a world leading researcher in this field describes fundamentals of dynamic spectrum management provides a systematic overview on the enabling technologies covering cognitive radio blockchain and artificial intelligence and offers valuable guidance for designing advanced wireless communications systems This book is intended for a broad range of readers including students and professionals in this field as well as radio spectrum policy makers

Sensing Techniques for Next Generation Cognitive Radio Networks Bagwari, Ashish, Bagwari, Jyotshana, Tomar, Geetam Singh, 2018-08-30 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 Sensing Techniques for Next Generation Cognitive Radio Networks is a pivotal reference source that provides vital research on the application of spectrum sensing techniques While highlighting topics such as radio identification compressive sensing and wavelet transform this publication explores the standards and the methods of cognitive radio network architecture This book is ideally designed for IT and network engineers practitioners and researchers seeking current research on radio scene analysis for cognitive radios and networks

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

Cognitive Radio and Interference Management: Technology and Strategy Ku, Meng-Lin, Lin, Jia-Chin, 2012-08-31

Broadcast spectrum is scarce both in terms of our ability to access existing spectrum and as a result of access rules created by governments. An emerging paradigm called cognitive radio however has the potential to allow different systems to dynamically access and opportunistically exploit the same frequency band in an efficient way thereby allowing broadcasters to use spectrum more efficiently. Cognitive Radio and Interference Management Technology and Strategy brings together state of the art research results on cognitive radio and interference management from both theoretical and practical perspectives. It serves as a bridge between people who are working to develop theoretical and practical research in cognitive radio and interference management and therefore facilitate the future development of cognitive radio and its applications.

Cognitive Wireless Networks Using the CSS Technology Meiling Li, Anhong Wang, Jeng-Shyang Pan, 2016-03-17 The aim of this book is to provide some useful methods to improve the spectrum sensing performance in a systematic way and point out an effective method for the application of cognitive radio technology in wireless communications. The book gives a state of the art survey and proposes some new cooperative spectrum sensing CSS methods attempting to achieve better performance. For each CSS the main idea and corresponding algorithm design are elaborated in detail. This book covers the fundamental concepts and the core technologies of CSS especially its latest developments. Each chapter is presented in a self sufficient and independent way so that the reader can select the chapters interesting to them. The methodologies are described in detail so that the readers can repeat the corresponding experiments easily. It will be a useful book for researchers helping them to understand the classifications of CSS inspiring new ideas about the novel CSS technology for CR and learning new ideas from the current status of CSS. For engineers it will be a good guidebook to develop practical applications for CSS.

Resource Management in Mobile Computing Environments Constandinos X. Mavromoustakis, Evangelos Pallis, George Mastorakis, 2014-06-09 This book reports the latest advances on the design and development of mobile computing systems describing their applications in the context of modeling analysis and efficient resource management. It explores the challenges on mobile computing and resource management paradigms including research efforts and approaches recently carried out in response to them to address future open ended issues. The book includes 26 rigorously refereed chapters written by leading international researchers providing the readers with technical and scientific information about various aspects of mobile computing from basic concepts to advanced findings reporting the state of the art on resource management in such environments. It is mainly intended as a reference guide for researchers and practitioners involved in the design development and applications of mobile computing systems seeking solutions to related issues. It also represents a useful textbook for advanced undergraduate and graduate courses addressing special topics such as mobile and ad hoc wireless networks peer to peer systems for mobile computing novel resource management techniques in cognitive radio networks and power management in mobile computing systems.

Cognitive Radio Network with Artificial

Intelligence Dr. Jayant P. Pawar, Dr. Prashant V. Ingole, 2024-11-09 Emerging cognitive radio technology has been identified as a high impact disruptive technology innovation that could provide solutions to the radio traffic jam problem and provide a path to scaling wireless systems for the next 25 years Topics like Cognitive Radio Spectrum Sensing Dynamic Spectrum Access and Wireless Regional Area Network WRAN are very recent in electronic and telecommunication engineering Also statistical models Markov Chain and Hidden Markov Model give more advantages to the reader Artificial Intelligence AI significantly enhances Cognitive Radio Networks CRNs by providing advanced capabilities for dynamic spectrum management interference mitigation network optimization and security

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