

Cognitive Radio Interoperability Through Waveform Reconfiguration

Sundar Gandhi Sankaran, Susinder Rajan Gulasekaran

Cognitive Radio: Interoperability Through Waveform Reconfiguration Leszek Lechowicz, Mieczyslaw M. Kokar, 2016-01-01
In the span of a century, radio technology advanced from spark transmitters, through analog radios based on vacuum tubes to solid state radios to finally software defined radios where most of the transmit and receive functionalities are implemented as programs running on specialized microprocessors. In recent years, cognitive radio emerged, which combines a software-defined radio with an intelligent agent, and promises to deliver a new level of functionality. This new resource addresses cognitive radio design from the perspective of interoperability with an emphasis on waveform configuration for increased flexibility and enhanced performance. The book provides readers with an extensive discussion of the concept of interoperability, as well as discusses some of the languages that could potentially be used for exchanging descriptions of waveforms.

Cognitive Radio, Software Defined Radio, and Adaptive Wireless Systems Hüseyin Arslan, 2007-08-17 Today's wireless services have come a long way since the roll out of the conventional voice-centric cellular systems. The demand for wireless access in voice and high rate data multi-media applications has been increasing. New generation wireless communication systems are aimed at accommodating this demand through better resource management and improved transmission technologies. This book discusses the cognitive radio, software defined radio, and adaptive radio concepts from several perspectives.

Essentials of Cognitive Radio Linda E. Doyle, 2009-04-30 Do you need to get quickly up to speed on cognitive radio? This concise, practical guide presents the key concepts and challenges you need to know about, including issues associated with security, regulation, and designing and building cognitive radios. Written in a descriptive style and using minimum mathematics, complex ideas are made easily understandable, providing you with a perfect introduction to the technology and preparing you to face its many future challenges.

Cognitive Radio and its Application for Next Generation Cellular and Wireless Networks Hrishikesh Venkataraman, Gabriel-Miro Muntean, 2012-04-28 This book provides a broad introduction to Cognitive Radio, which attempts

to mimic human cognition and reasoning applied to Software Defined Radio and reconfigurable radio over wireless networks. It provides readers with significant technical and practical insights into different aspects of Cognitive Radio, starting from a basic background, the principle behind the technology, the inter-related technologies and application to cellular and vehicular networks, the technical challenges, implementation and future trends. The discussion balances theoretical concepts and practical implementation. Wherever feasible, the different concepts explained are linked to application of the corresponding scheme in a particular wireless standard. This book has two sections: the first section begins with an introduction to cognitive radio and discusses in detail various, inter-dependent technologies such as network coding, software-based radio, dirty RF, etc. and their relation to cognitive radio. The second section deals with two key applications of cognitive radio - next generation cellular networks and vehicular networks. The focus is on the impact and the benefit of having cognitive radio-based mechanisms for radio resource allocation, multihop data transmission, co-operative communication, cross-layer solutions and FPGA-level framework design, as well as the effect of relays as cognitive gateways and real-time, seamless multimedia transmission using cognitive radio.

Cognitive Radio - An Enabler for Internet of Things S. Shanmugave, M. A. Bhagyaveni, 2017-06-23 Internet of Things (IoT) deals with the interconnection of devices that can communicate with each other over the internet. Currently, several smart systems have evolved with the evolution in IoT. Cognitive Radio - an enabler for Internet of Things is a research level subject for all communication engineering students at undergraduate, post graduate and research levels. The contents of the book are designed to cover the prescribed syllabus for one semester course on the subject prescribed by universities. Concepts have been explained thoroughly in simple and lucid language. Mathematical analysis has been used wherever necessary followed by clear and lucid explanation of the findings and their implication. Key technologies presented include dynamic spectrum access, spectrum sensing techniques, IEEE 802.22 and different radio network architectures. Their role and use in the context of mobile broadband access in general is explained, giving both a high level overview and a detailed step by step explanation. The book includes a large number of diagrams, MATLAB examples, thereby enabling the readers to have a sound grasp of the concepts presented and their applications. This book is a must have resource for engineers and other professionals in the telecommunication industry working with cellular or wireless broadband technologies, helping comprehension of the process of utilization of the updated technology to enable being ahead competition.

Flexible Adaptation in Cognitive Radios Shujun Li, Miécyslaw Kokar, 2012-11-06 This book provides an introduction to software-defined radio and cognitive radio, along with methodologies for applying knowledge representation, semantic web, logic reasoning and artificial intelligence to cognitive radio, enabling autonomous adaptation and flexible signaling. Readers from the wireless communications and software-defined radio communities will use this book as a reference to extend software-defined radio to cognitive radio, using the semantic technology described.

Cognitive Radio Communications and Networks Alexander M. Wyglinski, Maziar Nekovee, Thomas Hou, 2009-11-13

Cognitive Radio Communications and Networks gives comprehensive and balanced coverage of the principles of cognitive radio communications, cognitive networks, and details of their implementation, including the latest developments in the standards and spectrum policy. Case studies, end-of-chapter questions, and descriptions of various platforms and test beds, together with sample code, give hands-on knowledge of how cognitive radio systems can be implemented in practice. Extensive treatment is given to several standards, including IEEE 802.22 for TV White Spaces and IEEE SCC41. Written by leading people in the field, both at universities and major industrial research laboratories, this tutorial text gives communications engineers, R&D engineers, researchers, undergraduate and post graduate students a complete reference on the application of wireless communications and network theory for the design and implementation of cognitive radio systems and networks - Each chapter is written by internationally renowned experts, giving complete and balanced treatment of the fundamentals of both cognitive radio communications and cognitive networks, together with implementation details - Extensive treatment of the latest standards and spectrum policy developments enables the development of compliant cognitive systems - Strong practical orientation - through case studies and descriptions of cognitive radio platforms and testbeds - shows how real world cognitive radio systems and network architectures have been built. Alexander M. Wyglinski is an Assistant Professor of Electrical and Computer Engineering at Worcester Polytechnic Institute (WPI), Director of the WPI Limerick Project Center, and Director of the Wireless Innovation Laboratory (WI Lab) - Each chapter is written by internationally renowned experts, giving complete and balanced treatment of the fundamentals of both cognitive radio communications and cognitive networks, together with implementation details - Extensive treatment of the latest standards and spectrum policy developments enables the development of compliant cognitive systems - Strong practical orientation - through case studies and descriptions of cognitive radio platforms and testbeds - shows how real world cognitive radio systems and network architectures have been built.

Signal Digitization and Reconstruction in Digital Radios Yefim Poberezhskiy, Gennady Poberezhskiy, 2018-12-31

This comprehensive resource provides the latest information on digitization and reconstruction (D&R) of analog signals in digital radios. Readers learn how to conduct comprehensive analysis, concisely describe the major signal processing procedures carried out in the radios, and demonstrate the dependence of these procedures on the quality of D&R. The book presents and analyzes the most promising and theoretically sound ways to improve the characteristics of D&R circuits and illustrate the influence of these improvements on the capabilities of digital radios. The book is intended to bridge the gap that exists between theorists and practical engineers developing D&R techniques by introducing new signal transmission and reception methods that can effectively utilize the unique capabilities offered by novel digitization and reconstruction techniques.

Cognitive Radio Technology Bruce A. Fette, 2009-04-28 This book gives a thorough knowledge of cognitive radio concepts, principles, standards, spectrum policy issues and product implementation details. In addition to 16 chapters covering all the basics of cognitive radio, this new edition has eight brand-new chapters covering cognitive radio in multiple antenna systems, policy language and policy engine, spectrum sensing, rendezvous techniques, spectrum consumption models, protocols for adaptation, cognitive networking, and information on the latest standards, making it an indispensable resource for the RF and wireless engineer. The new edition of this cutting edge reference, which gives a thorough knowledge of principles, implementation details, standards, policy issues in one volume, enables the RF and wireless engineer to master and apply today's cognitive radio technologies. Bruce Fette, PhD, is Chief Scientist in the Communications Networking Division of General Dynamics C4 Systems in Scottsdale, AZ. He worked with the Software Defined Radio (SDR) Forum from its inception, currently performing the role of Technical Chair, and is a panelist for the IEEE Conference on Acoustics Speech and Signal Processing Industrial Technology Track. He currently heads the General Dynamics Signal Processing Center of Excellence in the Communication Networks Division. Dr. Fette has 36 patents and has been awarded the Distinguished Innovator Award. - Foreword and a chapter contribution by Joe Mitola, the creator of the field - Discussion of cognitive aids to the user, spectrum owner, network operator - Explanation of capabilities such as time - position awareness, speech and language awareness, multi-objective radio and network optimization, and supporting database infrastructure - Detailed information on product implementation to aid product developers - Thorough descriptions of each cognitive radio component technology provided by leaders of their respective fields, and the latest in high performance analysis - implementation techniques - Explanations of the complex architecture and terminology of the current standards activities - Discussions of market opportunities created by cognitive radio technology

A Method for Dynamic Reconfiguration of a Cognitive Radio System, 2006 Advances in process technology has made it possible to migrate applications that were traditionally implemented in custom silicon to general purpose processors. This transition has given birth to the field of cognitive and software-defined radio (C/SDR). These C/SDRs offer a broad range of opportunities for improving the use and utilization of radio frequency spectrum. This includes the creation of radio networks that can reconfigure their operation based on application requirements, policy updates, environmental conditions, and the ability to adapt to a wide range of protocols. One of the key benefits of having a C/SDR is its ability to change communication parameters in response to changes in application needs and/or changes in the radio frequency landscape. Such reconfiguration requires an understanding of how these communication parameters interact within the network protocol stack. Analysis of these parametric cross-layer interactions is a critical precursor in the development of a predictive model and algorithm for dynamic reconfiguration of a C/SDR. This work investigates how parameters at the physical, data link, network, and application layers interact, how desirable configurations of these parameters can be determined, and how these

parameters affect the performance of file transfer and Voice over IP applications. An analysis of varying communication parameters across networking layers is used to inform the design, implementation, and evaluation of a predictive model and algorithm for dynamic reconfiguration of a cognitive radio. This model and algorithm allow a C/SDR to dynamically modify its configuration in order to improve system performance. A systematic method for development of a cognitive platform is presented. This method uses statistical analysis of variance and design of experiments techniques to inform the design and implementation of a dynamic reconfiguration algorithm.

Machine Learning and Cognitive Computing for Mobile Communications and Wireless Networks Krishna Kant Singh, Akansha Singh, Korhan Cengiz, Dac-Nhuong Le, 2020-07-08 Communication and network technology has witnessed recent rapid development and numerous information services and applications have been developed globally. These technologies have high impact on society and the way people are leading their lives. The advancement in technology has undoubtedly improved the quality of service and user experience yet a lot needs to be still done. Some areas that still need improvement include seamless wide-area coverage, high-capacity hot-spots, low-power massive-connections, low-latency and high-reliability and so on. Thus, it is highly desirable to develop smart technologies for communication to improve the overall services and management of wireless communication. Machine learning and cognitive computing have converged to give some groundbreaking solutions for smart machines. With these two technologies coming together, the machines can acquire the ability to reason similar to the human brain. The research area of machine learning and cognitive computing cover many fields like psychology, biology, signal processing, physics, information theory, mathematics, and statistics that can be used effectively for topology management. Therefore, the utilization of machine learning techniques like data analytics and cognitive power will lead to better performance of communication and wireless systems.

Software-Defined Radio for Engineers Alexander M. Wyglinski, Robin Getz, Travis Collins, Di Pu, 2018-04-30 Based on the popular Artech House classic, Digital Communication Systems Engineering with Software-Defined Radio, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are

included to assist readers with their projects in the field.

Software Defined Radio: Theory and Practice John M. Reyland, 2023-11-30 Software Defined Radio: Theory and Practice is a comprehensive resource covering software defined radio (SDR) from theory to practical applications. The book provides foundational knowledge for communication engineers and SDR enthusiasts. It covers digital modulation techniques, from basic to advanced techniques such as SC-OFDM and GMSK. The book then discusses RF channel impairments and strategies for eliminating them along with the use of channel equalization and modern frequency domain equalizers utilized in cellular telephony. Source and channel coding are introduced, and receiver analog design is thoroughly researched, comparing traditional and modern designs. The book includes important review topics such as complex numbers, fixed-point numeric formats, decision theory, Doppler, and more. Software Defined Radio: Theory and Practice offers a well-rounded approach to understanding and applying SDR, combining theoretical knowledge with practical exercises and simulations for a comprehensive learning experience.

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

Handbook of Research on Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Management Kaabouch, Naima, 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.

An Introduction to Optical Wireless Mobile Communication Harald Haas, Mohamed Sufyan Islim, Cheng Chen, Hanaa Abumarshoud, 2021-09-30 The use of the optical spectrum for wireless communications has gained significant interest in recent years. Applications range from low-rate simplex transmission links using existing embedded CMOS cameras in smartphones, referred to as optical camera communications (OCC), mobile light fidelity (LiFi) networking in homes, offices, urban and sub-sea environments to free-space gigabit interconnects in data centers and point-to-point long-range wireless backhaul links outdoors and in space. This exciting book focuses on the use of optical wireless communications (OWC) for mobile use cases. The book discusses existing conventional radio frequency (RF)-based wireless access technology and presents the challenges that can impact the requirements of the future wave of new wireless services in the context of artificial intelligence (AI) driven autonomous systems and machine-type communications. The relationship between visible light communications (VLC) and light fidelity (LiFi), is explored, and the major advantages of VLC and LiFi such as security and data density, and discuss existing research challenges are also introduced. Channel modeling techniques are provided for mobile multiuser scenarios, and will introduce key building blocks to achieve LiFi cellular networks achieving orders of magnitude improvements of area spectral efficiency compared to state-of-the-art. Challenges that arise from moving from a static point-to-point visible light link to a LiFi network that is capable of serving hundreds of mobile and fixed nodes are discussed. An overview of recent standardization activities and the commercialization challenges of this disruptive technology is also provided.

Wi-Fi 6: Protocol and Network Sundar Gandhi Sankaran, Susinder Rajan Gulasekaran, 2021-08-31 With more than 15 billion Wi-Fi enabled devices, Wi-Fi has proven itself as a technology that has successfully evolved over the past 25 years. The need for high-speed connectivity is growing, as Wi-Fi has evolved into a fundamental utility that is expected to be available everywhere. This comprehensive resource covers six generations of Wi-Fi standards including protocol, implementation, and network deployment for both residential and enterprise environments. It will provide readers with a new understanding of how to approach and debug basic Wi-Fi problems, and will grant those wondering whether to pick 5G or Wi-Fi 6 for their product the clarity needed to make an informed decision. Readers will find in-depth coverage of Wi-Fi encryption and authentication methods, including explorations of recently uncovered security vulnerabilities and how to fix them. This book also provides detailed information on the implementation of Wi-Fi, including common regulatory and certification requirements, as well its associated challenges. This book also provides direction on the placement of Wi-Fi access points in indoor locations. It introduces the most recent Wi-Fi 6E certification, which defines requirements for devices operating on the newly opened 6 GHz band. Wi-Fi 6 is then compared with 5G technology, and this resource provides insight into the benefits of each as well as how these two technologies can be used to complement each other.

5G and Satellite RF and Optical Integration Geoff Varrall,2022-11-30 5G and Satellite RF and Optical Integration, the latest 'hot off the shelf' groundbreaking book from Artech House authored by subject specialist Geoff Varrall is packed with essential time critical information. This updated edition has everything needed to know in order to understand the new world of terrestrial and non-terrestrial telecom technology. It analyzes the radio spectrum/band and technical specifications under consideration for 5G, along with the related performance, cost, and vertical market expectations. In addition, the book studies the cost of coexistence between 5G operators and other user communities' co-sharing spectrum, including GNSS; radio astronomers; radar; GSO, MEO, and LEO satellites in the Ku, K, and Ka bands and above; and satellite TV. Also covered is the role of free-space optical technology in 5G and satellite networks and what interference issues will arise from new band allocations. This includes co-shared allocations and how interference will be mitigated in and between next generation terrestrial and satellite 5G networks. The publication coincides with an inflection point where terrestrial, nonterrestrial, and RF and optical networks could be integrated in a financially useful way.

Introduction to OFDM Receiver Design and Simulation Y.J. Liu,2019-11-30 This practical book is an accessible introduction to Orthogonal frequency-division multiplexing (OFDM) receiver design, a technology that allows digitized data to be carried by multiple carriers. It offers a detailed simulation study of an OFDM algorithm for Wi-Fi and 4G cellular that can be used to understand other OFDM waveforms. Extensive simulation studies are included using the transmission waveform given by the IEEE 802.11 standard. Scrambler, error-correcting codes, interleaver and radio-wave propagation model are included. OFDM waveform characteristics, signal acquisition, synchronization issues, channel estimation and tracking, hard and soft decision decoding are all covered. Detailed derivations leading to the final formula for any algorithm are given, which allows the reader to clearly understand the approximations and conditions behind the formulas and apply them appropriately. The algorithms are selected not just for the best performance from simulation study but also for easy implementation. An example is a unique algorithm for signal acquisition using the principle of maximum likelihood detection.

Implementing Full Duplexing for 5G David B. Cruickshank,2020-05-31 This exciting new book examines the feasibility of using a method of doubling the capacity of cellular networks by simultaneously transmitting and receiving signals at the same frequency, a process known as full duplexing (FD). To realize full duplexing, changes in the hardware of the cell- base stations, relaying equipment, "hot spot" access points and mobile phones are necessary to prevent the hardware's transmitters from interfering with their own receivers. This requires looking at how to separate the strong transmitted signal from the very weak received signal, a process requiring both hardware (analog) changes and more complex digital signal processing. Different ways of achieving that goal are examined. The books reviews the merits of hardware changes involving new duplexing components that may be different depending on the frequency band and cell hardware being used. Developing

full duplex (FD) systems in 5G LTE cellular communications and what can be achieved with ferrite-based circulators in terms of size reduction and performance enhancement, especially at millimetric frequencies, is considered. The relative merits of ferrite and non-ferrite circulators are compared in terms of their fundamental materials and device technologies, such as isolation, insertion loss, bandwidth and non-linearity. FD in the entire 5G cell is also examined and its resulting range of equipment and device communication. This includes front-hauling, more sophisticated back and front-hauling, backhaul beam switching, and cell extenders and relays, all of which could involve FD.

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