



mobile communications series

**Leszek Lechowicz
Mieczyslaw M. Kokar**

Cognitive Radio Interoperability through Waveform Reconfiguration

Cognitive Radio Interoperability Through Waveform Reconfiguration

**Alexander M. Wyglinski, Maziar
Nekovee, Thomas Hou**



Cognitive Radio Interoperability Through Waveform Reconfiguration:

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 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 *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

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

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

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

Signal Failure: The Rise and Fall of the Telecoms Industry John Polden,2024-04-30 Signal Failure How the Telecoms Industry Lost its Way explores the history of the telecoms industry

concentrating on the key period from 1950 2000 enabling practicing telecoms engineers to learn from the experiences and mistakes of the industry's history The book arises from wider research into the history of the United Kingdom electronics industry The lessons highlighted are very relevant now for any country that aims to grow by supporting technological industries The book has relevance well beyond telecoms and in particular show the long timescales affecting technological trends and how these can sometimes conflict with the relatively short horizon of political decisions The book is intended for anyone who is interested in how innovation affects the realities of technology entering the marketplace as well as the technology's economic performance Telecom professionals will find it gives background to the changes that happened in the UK industry However the book is also aimed at people who are interested in trends in the world wide telecoms and other technology industries Anyone involved with technological development will find the book relevant as it gives an insight into the issues that occur as significant disruptive technology enters a market

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 book 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

The Technical Foundations of IoT Boris Adryan, Dominik Obermaier, Paul Fremantle, 2017-06-30 This comprehensive new resource presents a technical introduction to the components architecture software and protocols of IoT This book is especially catered to those who are interested in researching developing and building IoT The book covers the physics of electricity and electromagnetism laying the foundation for understanding the components of modern electronics and computing Readers learn about the fundamental properties of matter along with security and privacy issues related to IoT From the launch of the internet from ARPAnet in the 1960s to recent connected gadgets this book highlights the integration of IoT in various verticals such as industry smart cities connected vehicles and smart and assisted living The overall design patterns issues with UX and UI and different network topologies related to architectures of M2M and IoT solutions are explored Product development power options for IoT devices including battery chemistry actuators from simple buzzers to complex stepper motors and sensors from gyroscopes to the electrical sensing of organic compounds are covered Hardware development sensors and embedded systems are discussed in detail This book offers insight into the software components that impinge on IoT solutions development network protocols backend software data analytics and conceptual interoperability

Cognitive Radio, Software Defined Radio, and Adaptive Wireless Systems Hüseyin Arslan, 2007-09-05 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 The interest in increasing Spectrum Access and improving Spectrum Efficiency combined with both the introduction of Software Defined Radios and the realization that machine learning can be applied to radios has created new intriguing possibilities for wireless radio researchers This book is aimed to discuss the cognitive radio software defined radio SDR and adaptive radio concepts from several aspects Cognitive radio and cognitive networks will be investigated from a broad aspect of wireless communication system enhancement while giving special emphasis on better spectrum utilization Applications of cognitive radio SDR and cognitive radio architectures spectrum efficiency and soft spectrum usage adaptive wireless system design measurements and awareness of various parameters including interference temperature and geo location information are some of the important topics that will be covered in this book Cognitive Radio Software Defined Radio and Adaptive Wireless Systems is intended to be both an introductory technology survey tutorial for beginners and an advanced mathematical overview intended for technical professionals in the communications industry technical managers and researchers in both academia and industry

Reconfigurable Circuits and Technologies for

Smart Millimeter-Wave Systems Philippe Ferrari,Rolf Jakoby,Onur Hamza Karabey,Gustavo P. Rehder,Holger Maune,2022-05-25 Describes the theory modeling and design of tunable mm wave circuits and systems using CMOS RF MEMS and microwave liquid crystals

Cognitive Radio - An Enabler for Internet of Things R. Kalidoss,M. A. Bhagyaveni,K. S. Vishvakshan,2022-09-01 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

Research Anthology on Developing and Optimizing 5G Networks and the Impact on Society Management Association, Information Resources,2020-11-27 As technology advances the emergence of 5G has become an essential discussion moving forward as its applications and benefits are expected to enhance many areas of life The introduction of 5G technology to society will improve communication speed the efficiency of information transfer and end user experience to name only a few of many future improvements These new opportunities offered by 5G networks will spread across industry government business and personal user experiences leading to widespread innovation and technological advancement What stands at the very core of 5G becoming an integral part of society is the very fact that it is expected to enrich society in a multifaceted way enhancing connectivity and efficiency in just about every sector including healthcare agriculture business and more Therefore it has been a critical topic of research to explore the implications of this technology how it functions what industries it will impact and the challenges and solutions of its implementation into modern society Research Anthology on Developing and Optimizing 5G Networks and the Impact on Society is a critical reference source that analyzes the use of 5G technology from the standpoint of its design and technological development to its applications in a multitude of industries This overall view of the aspects of 5G networks creates a comprehensive book for all stages of the implementation of 5G from early conception to application in various sectors Topics highlighted include smart cities wireless and mobile networks radio access technology internet of things and more This all encompassing book is ideal

for network experts IT specialists technologists academicians researchers and students *Forensic Investigations and Risk Management in Mobile and Wireless Communications* Sharma, Kavita, Makino, Mitsunori, Shrivastava, Gulshan, Agarwal, Basant, 2019-07-26 Mobile forensics has grown from a relatively obscure tradecraft to a crucial part of many criminal investigations and is now used daily by examiners and analysts within local state and federal law enforcement as well as within the military US government organizations and the private e Discovery industry Developments in forensic research tools and processes over the past decade have been very successful and continue to change at a rapid pace Forensic Investigations and Risk Management in Mobile and Wireless Communications is a collection of innovative research on the methods and applications of analyzing mobile devices and data for collection of information pertaining to the legal evidence related to various security breaches and intrusion detection While highlighting topics including cybercrime neural networks and smartphone security this book is ideally designed for security analysts IT professionals researchers practitioners academicians and students currently investigating the up and coming aspects surrounding network security computer science and security engineering *Introduction to Cognitive Radio Networks and Applications* Geetam Tomar, Ashish Bagwari, Jyotshana Kanti, 2016-10-03 Cognitive radio is 5 G technology comes under IEEE 802 22 WRAN Wireless Regional Area Network standards It is currently experiencing rapid growth due to its potential to solve many of the problems affecting present day wireless systems The foremost objective of Introduction to Cognitive Radio Networks and Applications is to educate wireless communication generalists about cognitive radio communication networks Written by international leading experts in the field this book caters to the needs of researchers in the field who require a basis in the principles and the challenges of cognitive radio 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 Intelligence and Security Informatics Daniel Ortiz-Arroyo, Henrik Legind Larsen, Daniel Zeng, David L. Hicks, Gerhard Wagner, 2008-11-27 This book constitutes the refereed proceedings of the First European Conference on Intelligence and Security Informatics EuroISI 2008 held in Esbjerg Denmark in December 2008 The 23 revised full papers and 2 revised poster papers presented were carefully reviewed and selected from 48 submissions The papers are organized in topical sections on criminal and social network analysis intelligence analysis and knowledge discovery Web based

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