Lajos Hanzo, Yosef Akhtman, Li Wang, Ming Jiang

MIMO-OFDM for LTE, WiFi and WiMAX Lajos Hanzo, Yosef Akhtman.Li Wang, Ming Jiang, 2012-01-03 MIMO-OFDM for LTE. WIFI and WIMAX: Coherent versus Non-Coherent and Cooperative Turbo-Transceivers provides an up-to-date portraval of wireless transmission based on OFDM techniques augmented with Space-Time Block Codes (STBCs) and Spatial-Division Multiple Access (SDMA). The volume also offers an in-depth treatment of cuttingedge Cooperative Communications. This monograph collates the latest techniques in a number of specific design areas of turbodetected MIMO-OFDM wireless systems. As a result a wide range of topical subjects are examined, including channel coding and multiuser detection (MUD), with a special emphasis on optimum maximum-likelihood (ML) MUDs, reduced-complexity genetic algorithm aided near-ML MUDs and sphere detection. The benefits of spreading codes as well as joint iterative channel and data estimation are only a few of the radical new features of the book. Also considered are the benefits of turbo and LDPC channel coding, the entire suite of known joint coding and modulation schemes, space-time coding as well as SDM/SDMA MIMOs within the context of various application examples. The book

systematically converts the lessons of Shannon's information theory into design principles applicable to practical wireless systems; the depth of discussions increases towards the end of the book. Discusses many state-of-the-art topics important to today's wireless communications engineers. Includes numerous complete system design examples for the industrial practitioner. Offers a detailed portrayal of sphere detection. Based on over twenty years of research into OFDM in the context of various applications, subsequently presenting comprehensive bibliographies.

Big Data Computing and Communications Yu Wang,Ge Yu,Yanyong Zhang,Zhu Han,Guoren Wang,2016-07-18 This book constitutes the proceedings of the Second International Conference on Big Data Computing and Communications, BigCom 2016, held in Shenyang, China, in July 2016. The 39 papers presented in this volume were carefully reviewed and selected from 90 submissions. BigCom is an international symposium dedicated to addressing the challenges emerging from big data related computing and networking. The conference is targeted to attract researchers and practitioners who are interested in Big Data analytics, management, security and privacy, communication and high performance computing in its broadest sense.

Wireless Networks: Multiuser Detection in Cross-Laver Design Christina Comaniciu, Narayan B. Mandayam, H. Vincent Poor,2006-06-14 Cross-layer design seeks to enhance the capacity of wireless networks significantly through the joint optimization of multiple layers in the network, primarily the physical (PHY) and medium access control (MAC) layers. Although there are advantages of such design in wireline networks as well, this approach is particularly advantageous for wireless networks due to the properties (such as mobility and interference) that strongly affect performance and design of higher layer protocols. This unique monograph is concerned with the issue of cross-layer design in wireless networks, and more particularly with the impact of node-level multiuser detection on such design. It provides an introduction to this vibrant and active research area insufficiently covered in existing literature, presenting some of the principal methods developed and results obtained to date. Accompanied by numerous illustrations, the text is an excellent reference for engineers, researchers and students working in communication networks.

Home Wireless Networking in a Snap Joe Habraken,2006-03-15 These days, nobody really wants to learn

everything there is about their hardware and software. And even if you did, who has the time to endlessly tinker and play with it until you figure everything out? You just want a book that will quickly show you how to set up your home wireless network. Home Wireless Networking in a Snap is designed specifically for busy people like you. This book covers the things that aren't already covered in the documentation that came with your equipment and the things you can't just figure out on your own. It is organized into a series of well-organized, bite-sized, quickly accomplished tasks, that lets you zero right in on particular tasks you want to accomplish. This hands-on approach to setting-up a secure home wireless network will have your network up and running in no time.

Simplified Robust Adaptive Detection and Beamforming for Wireless Communications Ayman ElNashar,2018-08-20 This book presents an alternative and simplified approaches for the robust adaptive detection and beamforming in wireless communications. It adopts several systems models including DS/CDMA, OFDM/MIMO with antenna array, and general antenna arrays beamforming model. It presents and analyzes recently developed detection and beamforming algorithms with an emphasis on robustness. In addition, simplified and efficient robust adaptive detection and

beamforming techniques are presented and compared with exiting techniques. Practical examples based on the above systems models are provided to exemplify the developed detectors and beamforming algorithms. Moreover, the developed techniques are implemented using MATLAB-and the relevant MATLAB scripts are provided to help the readers to develop and analyze the presented algorithms. em style=mso-bidi-font-style: normal;Simplified Robust Adaptive Detection and Beamforming for Wireless Communications starts by introducing readers to adaptive signal processing and robust adaptive detection. It then goes on to cover Wireless Systems Models. The robust adaptive detectors and beamformers are implemented using the well-known algorithms including LMS, RLS, IQRD-RLS, RSD, BSCMA, CG, and SD. The robust detection and beamforming are derived based on the existing detectors/beamformers including MOE, PLIC, LCCMA, LCMV, MVDR, BSCMA, and MBER. The adopted cost functions include MSE, BER, CM, MV, and SINR/SNR.

Application of Intelligent Systems in Multi-modal Information Analytics Vijayan Sugumaran,Zheng Xu,Shankar P.,Huiyu Zhou,2019-03-29 This book presents the proceedings of the 2019 International Conference on Intelligent Systems Applications in Multi-modal Information Analytics, held in Shenyang, China on February 19-20, 2019. It provides comprehensive coverage of the latest advances and trends in information technology, science and engineering, addressing a number of broad themes, including data mining, multi-modal informatics, agent-based and multi-agent systems for health and education informatics, which inspire the development of intelligent information technologies. The contributions cover a wide range of topics: AI applications and innovations in health and education informatics: data and knowledge management; multi-modal application management; and web/social media mining for multi-modal informatics. Outlining promising future research directions, the book is a valuable resource for students, researchers and professionals, and provides a useful reference guide for newcomers to the field.

Over-the-Road Wireless For Dummies E. Phil Haley,2006-08-07 Do you roam the road making a living, or are you enjoying the nomadic life of a retiree with a motor home? Either way, life goes on no matter where you're hanging your hat tonight. Bills still need to be paid, grandchildren grow up way too fast, and you've gotten pretty dependent on your e-mail. How do you stay connected to the rest of the world while you're on the

road? For a growing number of over-the-road drivers, business travelers, and RV enthusiasts, the answer is a wireless Internet connection. With a laptop and wireless access, you can Pay bills, check accounts, and handle banking online Send and receive email Surf the Web Access your home PC Make inexpensive phone calls with VoIP Watch TV, download movies, and listen to satellite radio So, you say, I see people in movies popping open their laptops and getting online wherever they happen to be. It looks awfully easy-why do I need a book? Well, lots of things are easy once you know how. Over-the-Road Wireless For Dummies tells you how in plain English, so you can take advantage of all those cool opportunities safely and easily. You'll discover how to Choose the best Wi-Fi access service for your needs and locate hotspots Assess cellular data services and satellite access to make informed choices about service Adapt your laptop or PDA for wireless, set up an external antenna, and install an external amplifier Use your cell phone as a modem Identify security threats, protect your data with strong passwords and encryption, and set up a personal firewall Install and use Skype and make phone calls with your laptop Make your truck or RV your office with online freight-finding services, a GPS receiver, a travel printer, and software to keep

logs and expense records Access streaming TV and radio on the road With Over-the-Road Wireless For Dummies to help, you can send online birthday cards, watch video of the grandchildren, do your banking, pay bills, keep records, connect to your home PC, and even file your taxes, no matter how far away you roam!

Intrusion Detection for IP-Based Multimedia Communications over Wireless Networks Jin Tang, Yu Cheng, 2013-09-27 IP-based multimedia communications have become increasingly popular in recent years. With the increasing coverage of the IEEE 802:11TM based wireless networks, IP-based multimedia communications over wireless networks are also drawing extensive attention in both academia and industry. Due to the openness and distributed nature of the protocols involved, such as the session initiation protocol (SIP) and the IEEE 802:11TM standard, it becomes easy for malicious users in the network to achieve their own gain or disrupt the service by deviating from the normal protocol behaviors. This SpringerBrief presents real-time intrusion detection techniques that can guickly track the malicious behaviors which manipulate the vulnerabilities from either the 802.11TM or the SIP protocols. More specifically, this book presents interdisciplinary techniques to achieve an effective real-time intrusion detection system, which

interweaves medium access control (MAC) protocol analysis, cumulative sum (CUSUM) based detector design, a novel Markovian model for CUSUM detectors, sketch-based traffic modeling, and wavelet based signal processing techniques.

#### THE CYBERCRIME HANDBOOK FOR COMMUNITY

CORRECTIONS Art Bowker, 2012-03-01 In the early 1990s, professionals began to question how to address offender computer use while on supervision, but in the past ten years, tools emerged that were specifically developed for triage and field forensics. As these were rapidly embraced, it was still unclear what professionals could look for, how to look for it, and how to interpret what they found. This unique book resolves those issues. The book provides a clear outline of what can and should be done regarding the management of offender computer use. Not only does the text help community corrections professionals understand how to monitor computer use, but it helps realize how information gained during monitoring can assist in overall case management. The book takes the reader through all the paces of managing offender cyber-risk and is meant specifically for pretrial, probation, parole, and community sanction officers. The chapters are organized by major areas, such as community corrections and cyberspace,

understanding the options, condition legality, operational legality, accessing cyber-risk, computer education, principles of effective computer monitoring, search and seizure, deploying monitoring software, and online investigations. Additionally, numerous appendices provide a wealth of information regarding model forms, questionnaires, and worksheets. This book moves the reader toward a more informed use of the technology that is now readily available to effectively manage offenders' digital behavior.

Pervasive Wireless Environments: Detecting and Localizing User Spoofing Jie Yang, Yingying Chen, Wade Trappe, Jerry Cheng, 2014-06-09 This Springer Brief provides a new approach to prevent user spoofing by using the physical properties associated with wireless transmissions to detect the presence of user spoofing. The most common method, applying cryptographic authentication, requires additional management and computational power that cannot be deployed consistently. The authors present the new approach by offering a summary of the recent research and exploring the benefits and potential challenges of this method. This brief discusses the feasibility of launching user spoofing attacks and their impact on the wireless and sensor networks. Readers are equipped to understand several system models. One attack detection model exploits the spatial correlation of received signal strength (RSS) inherited from wireless devices as a foundation. Through experiments in practical environments, the authors evaluate the performance of the spoofing attack detection model. The brief also introduces the DEMOTE system, which exploits the correlation within the RSS trace based on each device's identity to detect mobile attackers. A final chapter covers future directions of this field. By presenting complex technical information in a concise format, this brief is a valuable resource for researchers, professionals, and advanced-level students focused on wireless network security.

*Macs on the Go* John Tollett,Robin Williams,2006-05-01 Now that you have a Mac laptop, you have everything you need to be a Road Warrior—a mobile computing expert. Grab your Mac laptop and let John and Robin show you how to realize the full potential of mobile computing. Be productive, be creative, or just have a lot of fun while you're on the go! Whether you're traveling from one room to the other, from home to office, or even to another country, Macs on the Go! shows you how to take advantage of the power of mobility. You'll learn how to: - Modify your Network settings for connectivity. - Use the Mac's built-in software to keep in touch. -

Receive and send email from almost anywhere in the world. -Customize Network settings. - Use iChat to video conference or audio chat while on the go. - Keep in touch using .Mac Group pages or iWeb for blogs, photo pages, and movie pages. - Take advantage of cool .Mac account features. And you'll learn about: -Bluetooth and Wi-Fi technology. - Wireless connections and Hotspots. - Using a mobile phone to connect to the Internet. - File sharing while on the go. - Advanced Road Warrior tips.

*Embracing Interference in Wireless Systems* Shyamnath Gollakota,2014-06-01 The wireless medium is a shared resource. If nearby devices transmit at the same time, their signals interfere, resulting in a collision. In traditional networks, collisions cause the loss of the transmitted information. For this reason, wireless networks have been designed with the assumption that interference is intrinsically harmful and must be avoided. This book, a revised version of the author's award-winning Ph.D. dissertation, takes an alternate approach: Instead of viewing interference as an inherently counterproductive phenomenon that should to be avoided, we design practical systems that transform interference into a harmless, and even a beneficial phenomenon. To achieve this goal, we consider how wireless signals interact when they interfere, and use this understanding in our system designs. Specifically, when interference occurs, the signals get mixed on the wireless medium. By understanding the parameters of this mixing, we can invert the mixing and decode the interfered packets; thus, making interference harmless. Furthermore, we can control this mixing process to create strategic interference that allow decodability at a particular receiver of interest, but prevent decodability at unintended receivers and adversaries. Hence, we can transform interference into a beneficial phenomenon that provides security. Building on this approach, we make four main contributions: We present the first WiFi receiver that can successfully reconstruct the transmitted information in the presence of packet collisions. Next, we introduce a WiFi receiver design that can decode in the presence of high-power cross-technology interference from devices like baby monitors, cordless phones, microwave ovens, or even unknown technologies. We then show how we can harness interference to improve security. In particular, we develop the first system that secures an insecure medical implant without any modification to the implant itself. Finally, we present a solution that establishes secure connections between any two WiFi devices, without having users enter passwords or use pre-shared secret

keys.

Internet of Things and Cyber Physical Systems Keshav Kaushik, Susheela Dahiya, Akashdeep Bhardwai, Yassine Maleh, 2022-12-30 The quantity, diversity, and sophistication of Internet of Things (IoT) items are rapidly increasing, posing significant issues but also innovative solutions for forensic science. Such systems are becoming increasingly common in public locations, businesses, universities, residences, and other shared offices, producing enormous amounts of data at rapid speeds in a variety of forms. IoT devices can be used as suspects, digital witnesses, or instruments of crime and cyberattacks, posing new investigation problems, forensic issues, security threats, legal concerns, privacy concerns, and ethical dilemmas. A cyberattack on IoT devices might target the device itself or associated systems, particularly vital infrastructure. This book discusses the advancements in IoT and Cyber Physical Systems (CPS) forensics. The first objective is to learn and understand the fundamentals of IoT forensics. This objective will answer the question of why and how IoT has evolved as one of the most promising and widely accepted technologies across the globe and has many widely accepted applications. The second objective is to learn how to use

CPS to address many computational problems. CPS forensics is a promising domain, and there are various advancements in this field. This book is structured so that the topics of discussion are relevant to each reader's particular areas of interest. The book's goal is to help each reader to see the relevance of IoT and CPS forensics to his or her career or interests. This book not only presents numerous case studies from a global perspective, but it also compiles a large amount of literature and research from a database. As a result, this book effectively demonstrates the concerns, difficulties, and trends surrounding the topic while also encouraging readers to think globally. The main goal of this project is to encourage both researchers and practitioners to share and exchange their experiences and recent studies between academia and industry.

Guide to Establishing Monitoring Programs for Travel Time Reliability Brandon Nevers, Kittelson & Associates, Inc. Alan F. Karr, National Institute of Statistical Sciences Xuesong Zhou, University of Utah: Jeffrey Wojtowicz, Rensselaer Polytechnic Institute Joseph Schofer, Northwestern University Asad Khatty, Planitek Transportation Research Board, This report from the second Strategic Highway Research Program (SHRP 2), which is

administered by the Transportation Research Board of the National Academies, describes how to develop and use a Travel Time Reliability Monitoring System (TTRMS). It explains why such a system is useful, how it helps agencies do a better job of managing network performance, and what a traffic management center (TMC) team needs to do to put a TTRMS in place.

Low-rate Wireless Personal Area Networks José A. Gutiérrez,Edgar H. Callaway,Raymond L. Barrett,2004

Cognitive Radio Oriented Wireless Networks Dominique Noguet,Klaus Moessner,Jacques Palicot,2016-05-28 This book constitutes the thoroughly refereed conference proceedings of the 11th International Conference on Cognitive Radio Oriented Wireless Networks, CROWNCOM 2016, held in Grenoble, France, May 30 – April 1, 2016. The 62 revised full papers presented were carefully reviewed and selected from numerous submissions and cover the evolution of cognitive radio technology pertaining to 5G networks. The papers are clustered to topics on dynamic spectrum access/management, networking protocols for CR, modeling and theory, HW architecture and implementations, next generation of cognitive networks, standards and business models, emerging applications for cognitive networks.

Grid Computing Nikolaos P. Preve,2011-06-23 This book presents research from many of the major projects involved in the emerging global grid infrastructure. With a particular focus on the practical advantages and applications of grid computing - including real case studies - the book provides an in-depth study of grid technology for a wide range of different needs. Topics: examines a remote instrumentation infrastructure, and a methodology to support e-science applications on e-infrastructures; describes the GEMS storage system, and pipeline workflows for optimizing endto-end performance in wide-area networks; investigates semantic grid system architecture, social grid agents, and monitoring platforms designed for large-scale distributed systems; explores job control using service-level agreements; introduces the Composable Services Architecture for dynamic service provisioning, and the semantically driven communication middleware platform, Phoenix; discusses the PhyloGrid application, and a numerical simulation performed using grid computing.

Wearable Sensors and Robots Canjun Yang,G. S. Virk,Huayong Yang,2016-09-30 These proceedings present the latest information on regulations and standards for medical and non-medical devices, including wearable robots for gait training and

support, design of exoskeletons for the elderly, innovations in assistive robotics, and analysis of human–machine interactions taking into account ergonomic considerations. The rapid development of key mechatronics technologies in recent years has shown that human living standards have significantly improved, and the International Conference on Wearable Sensor and Robot was held in Hangzhou, China from October 16 to 18, 2015, to present research mainly focused on personal-care robots and medical devices. The aim of the conference was to bring together academics, researchers, engineers and students from across the world to discuss state-of-the-art technologies related to various aspects of wearable sensors and robots. div

Advances in Data Science and Intelligent Data Communication Technologies for COVID-19 Aboul-Ella Hassanien,Sally M. Elghamrawy,Ivan Zelinka,2021-07-23 This book presents the emerging developments in intelligent computing, machine learning, and data mining. It also provides insights on communications, network technologies, and the Internet of things. It offers various insights on the role of the Internet of things against COVID-19 and its potential applications. It provides the latest cloud computing improvements and advanced computing and addresses data

security and privacy to secure COVID-19 data.

X-Ray Imaging Systems for Biomedical Engineering Technology Euclid Seeram, 2023-11-27 This book addresses X-Ray Imaging Systems intended for biomedical engineering technology students and practitioners, and deals with the major technical components of x-ray imaging modalities. These modalities include film-based imaging, digital radiography, and computed tomography. Furthermore, principles and concepts essential to the understanding of how these modalities function will be described. These include fundamental radiation physics, imaging informatics, quality control, and radiation protection considerations. X-Ray Imaging Systems for Biomedical Engineering Technology: An Essential Guide is intended for biomedical engineering technologists, who provide technical advice and services relating to digital radiography and CT departments not only in hospitals but in private facilities as well. Students in radiological technology programs may also find this to be a useful resource.

Ignite the flame of optimism with Crafted by is motivational masterpiece, Fuel Your Spirit with WiFi Detectors . In a

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Table of Contents	eBooks	Fiction
WiFi Detectors	Over	• Determi
	Traditio	ning
1. Understanding	nal	Your
the eBook	Books	Reading
WiFi	2. Identifying	Goals
Detectors	WiFi	3. Choosing the
∘ The	Detectors	Right eBook
Rise of	• Explorin	Platform
Digital	g	• Popular
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	in an	Reviews	Subscri
	WiFi	and	ption
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	S	∘ WiFi	S
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	Friendly	s and	Detector
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4.	Exploring	5. Accessing	Friendly
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	ions from WiFi	Free and Paid	WiFi
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