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Multimedia Signal Processing

Theory and Applications in Speech, Music and Communications

John Wiley & Sons **Multimedia Signal Processing is a comprehensive and accessible text to the theory and applications of digital signal processing (DSP). The applications of DSP are pervasive and include multimedia systems, cellular communication, adaptive network management, radar, pattern recognition, medical signal processing, financial data forecasting, artificial intelligence, decision making, control systems and search engines. This book is organised in to three major parts making it a coherent and structured presentation of the theory and applications of digital signal processing. A range of important topics are covered in basic signal processing, model-based statistical signal processing and their applications. Part 1: Basic Digital Signal Processing gives an introduction to the topic, discussing sampling and quantization, Fourier analysis and synthesis, Z-transform, and digital filters. Part 2: Model-based Signal Processing covers probability and information models, Bayesian inference, Wiener filter, adaptive filters, linear prediction hidden Markov models and independent component analysis. Part 3: Applications of Signal Processing in Speech, Music and Telecommunications explains the topics of speech and music processing, echo cancellation, deconvolution and channel equalization, and mobile communication signal processing. Covers music signal processing, explains the anatomy and psychoacoustics of hearing and the design of MP3 music coder Examines speech processing technology including speech models, speech coding for mobile phones and speech recognition Covers single-input and multiple-inputs denoising methods, bandwidth extension and the recovery of lost speech packets in applications such as voice over IP (VoIP) Illustrated throughout, including numerous solved problems, Matlab experiments and demonstrations Companion website features Matlab and C++ programs with electronic copies of all figures. This book is ideal for researchers, postgraduates and senior undergraduates in the fields of digital signal processing, telecommunications and statistical data analysis. It will also be a valuable text to professional engineers in telecommunications and audio and signal processing industries.**

Information and Communication Technologies in Education, Research, and Industrial Applications

10th International Conference, ICTERI 2014, Kherson, Ukraine, June 9-12, 2014, Revised Selected Papers

Springer **This book constitutes the thoroughly refereed proceedings of the 10th International Conference on Information and Communication Technologies in Education, Research, and Industrial Applications, held in Kherson, Ukraine, in June 2014. The 16 revised full papers presented were carefully reviewed and selected from 66 submissions. The papers are organized in topical sections on framework and tools; information and communication technologies in teaching and**

learning; information and communication technologies in research and industrial applications.

Digital Information and Communication Technology and Its Applications

International Conference, DICTAP 2011, Dijon, France, June 21-23, 2011. Proceedings, Part I

Springer **This two-volume set CCIS 166 and CCIS 167 constitutes the refereed proceedings of the International Conference on Digital Information and Communication Technology and its Applications, DICTAP 2011, held in Dijon, France, in June 2010. The 128 revised full papers presented in both volumes were carefully reviewed and selected from 330 submissions. The papers are organized in topical sections on Web applications; image processing; visual interfaces and user experience; network security; ad hoc network; cloud computing; Data Compression; Software Engineering; Networking and Mobiles; Distributed and Parallel processing; social networks; ontology; algorithms; multimedia; e-learning; interactive environments and emergent technologies for e-learning; signal processing; information and data management.**

Audio Signal Processing for Next-Generation Multimedia Communication Systems

Springer Science & Business Media **Audio Signal Processing for Next-Generation Multimedia Communication Systems presents cutting-edge digital signal processing theory and implementation techniques for problems including speech acquisition and enhancement using microphone arrays, new adaptive filtering algorithms, multichannel acoustic echo cancellation, sound source tracking and separation, audio coding, and realistic sound stage reproduction. This book's focus is almost exclusively on the processing, transmission, and presentation of audio and acoustic signals in multimedia communications for telecollaboration where immersive acoustics will play a great role in the near future.**

Mobile Multimedia Communications: Concepts, Applications, and Challenges

Concepts, Applications, and Challenges

IGI Global **With rapid growth of the Internet, the applications of multimedia are burgeoning in every aspect of human life including communication networks and wireless and mobile communications. Mobile Multimedia Communications: Concepts, Applications and Challenges captures defining research on all aspects and implications of the accelerated progress of mobile multimedia technologies. Covered topics include fundamental network infrastructures, modern communication features such as wireless and mobile multimedia protocols, personal communication systems, mobility and resource management, and security and privacy issues. A complete reference to topics driving current and potential future development of mobile technologies, this essential addition to library collections will meet the needs of researchers in a variety of related fields.**

Communication Technology and Social Change

Theory and Implications

Routledge **Communication Technology and Social Change is a distinctive collection that provides current theoretical, empirical, and legal analyses for a broader understanding of the dynamic influences of communication technology on social change. With a distinguished panel of contributors, the volume presents a systematic discussion of the role communication technology plays in shaping social, political, and economic influences in society within specific domains and settings. Its integrated focus expands and complements the scope of existing literature on this subject. Each chapter is organized around a specific structure, covering: *Background—offering an introduction of relevant communication technology that outlines its technical capabilities, diffusion, and uses; *Theory—featuring a discussion of relevant theories used to study the social impacts of the communication technology in question; *Empirical Findings—providing an analysis of recent academic and relevant practical work that explains the impact of the communication technology on social change; and *Social Change Implications—proposing a summary of the real world implications for social change that stems from synthesizing the relevant theories and empirical findings presented throughout the book. Communication Technology and Social Change will serve scholars, researchers, upper-division undergraduate students, and graduate students examining the relationship between communication and technology**

and its implications for society.

Key Themes In Media Theory

McGraw-Hill Education (UK) **Key Themes is a critical introduction to key theories of media for undergraduate students.**

Multigenerational Online Behavior and Media Use: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global **The rapid evolution of technology continuously changes the way people interact, work, and learn. By examining these advances from a sociological perspective, researchers can further understand the impact of cyberspace on human behavior, interaction, and cognition. Multigenerational Online Behavior and Media Use: Concepts, Methodologies, Tools, and Applications is a vital reference source covering the impact of social networking platforms on a variety of relationships, including those between individuals, governments, citizens, businesses, and consumers. The publication also highlights the negative behavioral, physical, and mental effects of increased online usage and screen time such as mental health issues, internet addiction, and body image. Showcasing a range of topics including online dating, smartphone dependency, and cyberbullying, this multi-volume book is ideally designed for sociologists, psychologists, computer scientists, engineers, communication specialists, academicians, researchers, and graduate-level students seeking current research on media usage and its behavioral effects.**

Intelligent Multimedia Technologies for Networking Applications: Techniques and Tools

Techniques and Tools

IGI Global **As ubiquitous multimedia applications benefit from the rapid development of intelligent multimedia technologies, there is an inherent need to present frameworks, techniques and tools that adopt these technologies to a range of networking applications. Intelligent Multimedia Technologies for Networking Applications: Techniques and Tools promotes the discussion of specific solutions for improving the quality of multimedia experience while investigating issues arising from the deployment of techniques for adaptive video streaming. This reference source provides relevant theoretical frameworks and leading empirical research findings and is suitable for practitioners and researchers in the area of multimedia technology.**

Information Communication Technologies for Enhanced Education and Learning: Advanced Applications and Developments

Advanced Applications and Developments

IGI Global **"This book offers an examination of technology-based design, development, and collaborative tools for the classroom"--Provided by publisher.**

Cognitive Wireless Communication Networks

Springer Science & Business Media **This book provides a unified view on the state-of-the-art of cognitive radio technology. It includes a set of research and survey articles featuring the recent advances in theory and applications of cognitive radio technology for the next generation (e.g., fourth generation) wireless communication networks. The contributed articles cover both the theoretical concepts (e.g., information-theoretic analysis) and system-level implementation issues.**

Mobile Media and Social Intimacies in Asia

Reconfiguring Local Ties and Enacting Global Relationships

Springer Nature **This edited volume brings together cutting-edge studies from emerging scholars of East/Southeast Asia who explore the role of mobile media in the contemporary transformation of the region's social intimacies, from the romantic to the familial to the communal. By providing a regional and transnational overview of such studies, it affords new insights into how these mobile technologies have contributed to the rise of 'glocal intimacies'. This pertains to the normalisation and intensification of how people's relationships of closeness are entangled in the ever-shifting and constantly negotiated flows between global modernity and local everyday life. In providing case studies of mobile media and glocal intimacies, the chapters in the volume attend to a broad range of countries that include China, Korea, Malaysia, the Philippines, Singapore, Vietnam, and Taiwan. This illustrates the differing ways in which mobile media might be embedded in the region's divergent articulations of social intimacies, which reflect the ongoing tensions between Western and Asian imaginaries of modernity. The chapters also discuss a wide array of mobile media that people use, from social media platforms like Facebook and Instagram, to messaging apps like KakaoTalk and WhatsApp, to dating apps like Tinder and Blued. This allows for a mapping out of the different levels of impact that mobile media might have on social intimacies in a region that contains some of the most technologically advanced as well as the most technologically behind societies in the world. In summary, this book allows readers to take a comparative approach to understanding the complexity of the glocal intimacies that are emerging from the ways people in Asia use mobile media to reconfigure their local ties and to enact global relationships. This volume will benefit students, academics, and researchers who are keen in media and communication, cultural studies, sociology, anthropology, and Asian studies. "This exciting and much-needed book will greatly advance our efforts to decolonise media and communications research. The chapters offer empirically rich and nuanced accounts that challenge the dominant paradigms about mediated intimacy." Mirca Madianou, Goldsmiths, University of London "This collection develops the original concept of 'glocal intimacies' to describe how mobile media have become a crucial site where new social intimacies are enacted, reinforced and transformed in Asia. It introduces fresh empirical research from emerging scholars to furnish deep theoretical insights into these imaginaries and practices." Audrey Yue, National University of Singapore**

Advances in Information and Communication Technology and Systems

Springer Nature **This book highlights the most important research areas in Information and Communication Technologies as well as Radio Electronics, in particular contains publications on theory, applications, and design methods of Processing and Control in Information and Communication Systems. The respective chapters share in-depth and extended results in these areas with a view to resolving practically relevant and challenging issues including: 1. Infocommunications: IT, Cloud and Big Data technologies, E-society, Internet of Things and its implementation, Information and communication systems, security, etc.; 2. Telecommunications: Communication systems and networks, theoretical foundations of information processing and transmission in communication systems, SDN and SDR, etc..; 3. Radio Engineering: Theory of circuits, signals and processes in radio engineering and electronics, Circuit engineering, antennas, Microwave technology, Microwave and THz electronics, etc.; 4. Electronics: Electronic materials, Electronic devices, Nanoelectronics and Nanotechnology, etc. These results can be used in the implementation of novel systems and to promote the exchange of information in e-societies. Given its scope the book offers a valuable resource for scientists, lecturers, specialists working at enterprises, graduate and undergraduate students who engage with problems in Information and Communication Technologies as well as Radio Electronics**

Game Theory in Wireless and Communication Networks

Theory, Models, and Applications

Cambridge University Press **This unified 2001 treatment of game theory focuses on finding state-of-the-art solutions to issues surrounding the next generation of wireless and communications networks. The key results and tools of game theory are covered, as are various real-world technologies and a wide range of techniques for modeling, design and analysis.**

Media Convergence Handbook - Vol. 1

Journalism, Broadcasting, and Social Media Aspects of

Convergence

Springer **The Media Convergence Handbook sheds new light on the complexity of media convergence and the related business challenges. Approaching the topic from a managerial, technological as well as end-consumer perspective, it acts as a reference book and educational resource in the field. Media convergence at business level may imply transforming business models and using multiplatform content production and distribution tools. However, it is shown that the implementation of convergence strategies can only succeed when expectations and aspirations of every actor involved are taken into account. Media consumers, content producers and managers face different challenges in the process of media convergence. Volume I of the Media Convergence Handbook encourages an active discourse on media convergence by introducing the concept through general perspective articles and addressing the real-world challenges of conversion in the publishing, broadcasting and social media sectors.**

Digital Multimedia: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global **Contemporary society resides in an age of ubiquitous technology. With the consistent creation and wide availability of multimedia content, it has become imperative to remain updated on the latest trends and applications in this field. Digital Multimedia: Concepts, Methodologies, Tools, and Applications is an innovative source of scholarly content on the latest trends, perspectives, techniques, and implementations of multimedia technologies. Including a comprehensive range of topics such as interactive media, mobile technology, and data management, this multi-volume book is an ideal reference source for engineers, professionals, students, academics, and researchers seeking emerging information on digital multimedia.**

Oxford Textbook of Global Public Health

Oxford University Press **Sixth edition of the hugely successful, internationally recognised textbook on global public health and epidemiology comprehensively covering the scope, methods, and practice of the discipline.**

The Multimedia Internet

Springer Science & Business Media **Here is a thorough, not-overly-complex introduction to the three technical foundations for multimedia applications across the Internet: communications (principles, technologies and networking); compressive encoding of digital media; and Internet protocol and services. All the contributing systems elements are explained through descriptive text and numerous illustrative figures; the result is a book well-suited toward non-specialists, preferably with technical background, who need well-composed tutorial introductions to the three foundation areas. The text discusses the latest advances in digital audio and video encoding, optical and wireless communications technologies, high-speed access networks, and IP-based media streaming, all crucial enablers of the multimedia Internet.**

5G Green Mobile Communication Networks

Springer **This book focuses on the modeling, optimization, and applications of 5G green mobile communication networks, aimed at improving energy efficiency and spectrum utilization in 5G systems. It offers a balance between theoretical analysis and engineering practice, providing in-depth studies of a number of major topics, such as energy consumption models, optimization, system design, implementation, and performance evaluation. It also discusses four aspects of green communication in detail: cellular networks, resource management, wireless transmissions and multi-media communications. Further, this unique book comprehensively and systematically discusses green optimization in wireless mobile communications. As such it is a valuable resource for researchers, engineers, and graduate students in various fields, including telecommunications engineering, electrical and electronic engineering, and computer engineering, particularly those interested in green communications.**

Governance, Communication, and Innovation in a Knowledge Intensive Society

IGI Global **The proper use and dissemination of information among stakeholders, organizations, and societies is crucial for the development of productive and prosperous communities. Governance, Communication, and Innovation in a Knowledge Intensive Society gathers current research on knowledge management in governments, organizations, and institutions, and presents a compilation useful to academics, professionals, politicians, and policymakers invested in knowledge intensive societies. This book investigates the impact of knowledge and information technologies on fields as diverse as education, culture, science and business, in order to provide an effective framework for effectively**

navigating the nuances of an information-pervasive world.

Public Service Media in Europe: A Comparative Approach

Routledge **Public service media (PSM) have been the mainstay of Western European broadcasting for a number of decades. Yet despite a general political consensus in favour of PSM, recent technological, economic and political changes have led to a questioning of their value. This new collection of essays explores the history of PSM in selected European countries, from their early establishment as the main media in many countries to charting their transformation and evolution in recent years. The contributions consider the political, economic and market-integration issues that impact PSM, while also highlighting the importance of the ideology that originally accompanied PSM in its initial years, to see how relevant they are in the contemporary world. The book consists of two complementary parts: Part I: Theoretical Aspects and Global Influences on Public Service Media in Europe Part II: A Comparative Analysis of Public Service Media across Europe With contributions from leading experts, the first part offers a thorough examination of the current concepts and conditions that influence PSM in Europe. The second offers a comparative study of PSM in several European countries including France, Germany, Italy, Poland, Spain and Sweden. Offering the most comprehensive study of the field to date, Public Service Media in Europe will be useful for students and researchers in public media, political communication, international and comparative media.**

IT Policy and Ethics: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global **IT policies are set in place to streamline the preparation and development of information communication technologies in a particular setting. IT Policy and Ethics: Concepts, Methodologies, Tools, and Applications is a comprehensive collection of research on the features of modern organizations in order to advance the understanding of IT standards. This is an essential reference source for researchers, scholars, policymakers, and IT managers as well as organizations interested in carrying out research in IT policies.**

Multimedia Information Systems

Springer **Multimedia Information Systems explores the technical, human, organizational and socio-economic issues which underpin the implementation and use of multimedia information systems. This unique book comprehensively defines multimedia information systems and its emerging architecture. Today's important issues of networked multimedia information systems and multimedia trafficking on the information superhighway are thoroughly investigated. Multimedia information systems applications and organizational implications are also discussed along with multimedia authoring systems. Multimedia Information Systems is essential reading for all students and professionals faced with the challenges of multimedia information systems management and development. Multimedia Information Systems develops an awareness of the problems associated with multimedia information systems management, and the ability to understand and address these emerging challenges on an organizational and technical level. The book explores the limitations of multimedia on the information superhighway, and offers solutions for present and future development on the Internet. This book also scrutinizes the current applications of multimedia information systems, and examines how they can be developed. Multimedia Information Systems serves as an excellent text for courses on the subject, and as an invaluable reference for multimedia information systems professionals.**

Re-imagining Development Communication in Africa

Rowman & Littlefield **This book takes a new look at development communication in Africa from the perspective of experienced scholars and practitioners. The book is organized into three sections or parts, the first focusing on the past and the history of development communication scholarship; the second analyzes theoretical issues, and finally a third section that looks at country cases.**

Communication Yearbook 34

Routledge **Communication Yearbook 34 continues the tradition of publishing rich, state-of-the-discipline literature reviews. This volume offers insightful descriptions of communication research as well as reflections on the implications of those findings for other areas of the discipline. Editor Charles T. Salmon presents a volume with diverse chapters from scholars across the globe. Chapters cover a wide range of topics, including nanotechnology, deception, terror management theory, and the rhetorical aftermath of genocide. Commentaries from senior scholars round out the contents, providing insights on the groundbreaking work presented here. As a whole, this volume will be valuable to scholars and researchers across the communication discipline and around the world.**

Reliable Communications for Short-Range Wireless Systems

Cambridge University Press **Ensuring reliable communication is an important concern in short-range wireless communication systems with stringent quality of service requirements. Key characteristics of these systems, including data rate, communication range, channel profiles, network topologies and power efficiency, are very different from those in long-range systems. This comprehensive book classifies short-range wireless technologies as high and low data rate systems. It addresses major factors affecting reliability at different layers of the protocol stack, detailing the best ways to enhance the capacity and performance of short-range wireless systems. Particular emphasis is placed on reliable channel estimation, state-of-the-art interference mitigation techniques and cooperative communications for improved reliability. The book also provides detailed coverage of related international standards including UWB, ZigBee, and 60 GHz communications. With a balanced treatment of theoretical and practical aspects of short-range wireless communications and with a focus on reliability, this is an ideal resource for practitioners and researchers in wireless communications.**

Intelligent Computing, Communication and Devices

Proceedings of ICCD 2014, Volume 2

Springer **In the history of mankind, three revolutions which impact the human life are the tool-making revolution, agricultural revolution and industrial revolution. They have transformed not only the economy and civilization but the overall development of the society. Probably, intelligence revolution is the next revolution, which the society will perceive in the next 10 years. ICCD-2014 covers all dimensions of intelligent sciences, i.e. Intelligent Computing, Intelligent Communication and Intelligent Devices. This volume covers contributions from Intelligent Communication which are from the areas such as Communications and Wireless Ad Hoc & Sensor Networks, Speech & Natural Language Processing, including Signal, Image and Video Processing and Mobile broadband and Optical networks, which are the key to the ground-breaking inventions to intelligent communication technologies. Secondly, Intelligent Device is any type of equipment, instrument or machine that has its own computing capability. Contributions from the areas such as Embedded Systems, RFID, RF MEMS, VLSI Design & Electronic Devices, Analog and Mixed-Signal IC Design and Testing, MEMS and Microsystems, CMOS MEMS, Solar Cells and Photonics, Nano Devices, Single Electron & Spintronics Devices, Space Electronics and Intelligent Robotics are covered in this volume.**

Emerging Communication Technologies Based on Wireless Sensor Networks

Current Research and Future Applications

CRC Press **Emerging Communication Technologies Based on Wireless Sensor Networks: Current Research and Future Applications fills a gap in the existing literature by combining a plethora of WSN-based emerging technologies into a single source so that researchers can form opinions regarding these technologies. It presents different types of emerging communication technologies based on WSNs and describes how wireless sensor networks can be integrated with other communication technologies. It covers many of the new techniques and demonstrates the application of WSNs. The book's 14 chapters are divided into four parts. The first part covers the basics of wireless sensor networks and their principal working methods. The authors then move on to discuss different types of WSNs, characteristics of different types of emerging technologies based on WSNs, renewable energy sources, battery replenishment strategies, and application-specific energy challenges of WSNs. The second part is dedicated to issues related to wireless body area networks (WBANs). It discusses wearable WSNs and their applications, standards, and research trends. The authors also discuss routing schemes devised for WBANs and thermal-aware routing protocols for WBANs. The third part focuses on different emerging communication technologies based on WSNs, including electromagnetic wireless nanosensor networks, WSNs in the IoT, management of WSNs through satellite networks, WSNs in smart homes, and cognitive radio technology in conjunction with WSNs. The last part of the book covers topics generally related to typical WSNs, including energy-efficient data collection in WSNs, key distribution mechanisms in WSNs, distributed data gathering algorithms for mobile WSNs, and finally, a novel mobility scheme for WSNs that supports IPv6.**

Social Media Communication

Concepts, Practices, Data, Law and Ethics

Taylor & Francis **In the second edition of Social Media Communication: Concepts, Practices, Data, Law and Ethics, Jeremy Harris Lipschultz presents a wide-scale, interdisciplinary analysis and guide to social media. Examining platforms such as Facebook, Instagram, Snapchat, LinkedIn, YouTube and Pinterest, this book explores and analyzes journalism, broadcasting, public relations, advertising and marketing. Lipschultz focuses on key concepts, best practices, data analyses, law and ethics—all promoting the critical thinking professionals and students need to use new networking tools effectively and to navigate social and mobile media spaces. Featuring historical markers and contemporary case studies, essays from some of the industry's leading social media innovators and a comprehensive glossary, this practical, multipurpose textbook gives readers the resources they'll need to both evaluate and utilize current and future forms of social media. For more information about the book, supplementary updates and teaching materials, follow the Social Media Communication Facebook page, @JeremyHL on Twitter and the UNO Social Media Lab on SlideShare. Facebook: www.facebook.com/SocialMediaCommunication Twitter: @JeremyHL #UNOSML #SMC2018 #SMProfs SlideShare: www.slideshare.net/jeremylipschultz**

NETWORKING 2006. Networking Technologies, Services, Protocols; Performance of Computer and Communication Networks; Mobile and Wireless Communications Systems

5th International IFIP-TC6 Networking Conference, Coimbra, Portugal, May 15-19, 2006, Proceedings

Springer **Here are the refereed proceedings of the 5th International IFIP-TC6 Networking Conference, NETWORKING 2006. The 88 revised full papers and 31 poster papers are organized in topical sections on caching and content management, mobile ad-hoc networks, mobility/handoff, monitoring/measurements, multicast, multimedia, optical networks, peer-to-peer, resource management and QoS, routing, topology and location awareness, traffic engineering, transport protocols, wireless networks, and wireless sensor networks.**

Digital Arts and Entertainment: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global **In today's interconnected society, media, including news, entertainment, and social networking, has increasingly shifted to an online, ubiquitous format. Artists and audiences will achieve the greatest successes by utilizing these new digital tools. Digital Arts and Entertainment: Concepts, Methodologies, Tools, and Applications examines the latest research and findings in electronic media, evaluating the staying power of this increasingly popular paradigm along with best practices for those engaged in the field. With chapters on topics ranging from an introduction to online entertainment to the latest advances in digital media, this impressive three-volume reference source will be important to researchers, practitioners, developers, and students of the digital arts.**

Handbook of Research on Next Generation Mobile Communication Systems

IGI Global **Anyone who has ever shopped for a new smart phone, laptop, or other tech gadget knows that staying connected is crucial. There is a lot of discussion over which service provider offers the best coverage—enabling devices to work anywhere and at any time—with 4G and LTE becoming a pervasive part of our everyday language. The Handbook of Research on Next Generation Mobile Communication Systems offers solutions for optimal connection of mobile devices. From satellite signals to cloud technologies, this handbook focuses on the ways communication is being revolutionized, providing a crucial reference source for consumers, researchers, and business professionals who want to be on the frontline of the next big development in wireless technologies. This publication features a wide variety of research-based articles that discuss the future of topics such as bandwidth, energy-efficient power, device-to-device communication, network security and privacy, predictions for 5G communication systems, spectrum sharing and connectivity, and many other relevant issues that will influence our everyday use of technology.**

Queuing Theory and Telecommunications Networks and Applications

Springer Nature **This thoroughly revised textbook provides a description of current networking technologies and protocols as well as important new tools for network performance analysis based on queuing theory. The third edition adds topics such as network virtualization and new related architectures, novel satellite systems (such as Space X, OneWeb), jitter and its impact on streaming services, packet level FEC techniques and network coding, new Markovian models, and advanced details on M/G/1 queuing models. The author also adds new selected exercises throughout the chapters and a new version of the slides and the solution manual. The book maintains its organization with networking technologies and protocols in Part I and then theory and exercises with applications to the different technologies and protocols in Part II. This book is intended as a textbook for master level courses in networking and telecommunications sectors.**

Handbook of Research on Recent Developments in Intelligent Communication Application

IGI Global **The communication field is evolving rapidly in order to keep up with society's demands. As such, it becomes imperative to research and report recent advancements in computational intelligence as it applies to communication networks. The Handbook of Research on Recent Developments in Intelligent Communication Application is a pivotal reference source for the latest developments on emerging data communication applications. Featuring extensive coverage across a range of relevant perspectives and topics, such as satellite communication, cognitive radio networks, and wireless sensor networks, this book is ideally designed for engineers, professionals, practitioners, upper-level students, and academics seeking current information on emerging communication networking trends.**

Security and Privacy in Communication Networks 13th International Conference, SecureComm 2017, Niagara Falls, ON, Canada, October 22–25, 2017, Proceedings

Springer **This book constitutes the thoroughly refereed roceedings of the 13th International Conference on Security and Privacy in Communications Networks, SecureComm 2017, held in Niagara Falls, ON, Canada, in October 2017.The 31 revised regular papers and 15 short papers were carefully reviewed and selected from 105 submissions. The topics range from security and privacy in machine learning to differential privacy, which are currently hot research topics in cyber security research.**

Organizations, Communication, and Health

Routledge **Organizations, Communication, and Health focuses on theories and constructs of organizational communication and their relationship to health. The goal of the volume is to offer a current picture of organizational and organizing processes and practices related to health. Research in the area of health communication has expanded in recent years, and this research has advanced understandings of campaigns, patient/provider interactions, and social support. However, a gap in the area of health, organizations, and organizing processes emerged, a niche this volume fills. It does so by having chapters identify an organizational theory or organizing process and how aspects of that theory relate to health. Chapters discuss how to marry theory to practice and the other factors (e.g., organizational structure, role, occupation, industry, or environment) that need to be considered in the process of utilizing the theory in organizations. This volume, aimed at advanced undergraduate and graduate students studying health communication, as well as health professionals, provides useful theory and practice related the organizations and health, and issues a call for further theorizing on the practice of health communication in organizations.**

Introduction to Global Health Promotion

John Wiley & Sons **Introduction to Global Health Promotion addresses a breadth and depth of public health topics that students and emerging professionals in the field must understand as the world's burden of disease changes with non-communicable diseases on the rise in low- and middle-income countries as their middle class populations grow. Now more than ever, we need to provide health advocacy and intervention to prevent, predict, and address emerging global health issues. This new text from the Society for Public Health Education (SOPHE) prepares readers with thorough and thoughtful chapters on global health promotion theories, best practices, and perspectives on the future of the field,**

from the individual to the global level. The world's biggest health care challenges—including HIV, malaria, heart disease, smoking, and violence, among others—are explored in detail in Introduction to Global Health Promotion. The state of the science, including the latest empirical data, is distilled into 19 chapters that update readers on the complex issues surrounding a variety of illnesses and conditions, and disease epidemics and individual, social, institutional, and governmental barriers to preventing them. Expert authors bring to the fore human rights issues, new uses of technology, and practical application of theory. These perspectives, along with the book's multidisciplinary approach, serve to create a well-rounded understanding of global health today.

Mobile Positioning and Tracking

From Conventional to Cooperative Techniques

John Wiley & Sons **12.3 Cooperative Data Fusion and Filtering Techniques -- 12.4 COMET: A Cooperative Mobile Positioning System -- 12.5 Experimental Activity in a Cooperative WLAN Scenario -- 12.6 Conclusions -- References -- Index -- End User License Agreement**

Game Theory for Next Generation Wireless and Communication Networks

Modeling, Analysis, and Design

Cambridge University Press **A unified treatment of the latest game theoretic approaches for designing, modeling, and optimizing emerging wireless communication networks. Covering theory, analytical tools, and applications, it is ideal for researchers and graduate students in academia and industry designing efficient, scalable and robust protocols for future wireless networks.**

The Internet in the Arab World

Egypt and Beyond

Peter Lang **Tackling the issue in a systematic, scientific manner, this book also examines Islamic online communications, online censorship, and Internet use by the civic society as an alternative channel for its mostly oppressed voices.**