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Air Interface Technologies and Performance Springer Science & Business Media

The 2016 International Conference on Energy Science and Applied Technology (ESAT 2016) held on June 25-26 in Wuhan, China aimed to provide a platform for researchers, engineers, and academicians, as well as industrial professionals, to present their research results and development activities in energy science and engineering and its applied technology. The themes presented in Energy Science and Applied Technology ESAT 2016 are: Technologies in Geology, Mining, Oil and Gas; Renewable Energy, Bio-Energy and Cell Technologies; Energy Transfer and Conversion, Materials and Chemical Technologies; Environmental Engineering and Sustainable Development; Electrical and Electronic Technology, Power System Engineering; Mechanical, Manufacturing, Process Engineering; Control and Automation; Communications and Applied Information Technologies; Applied and Computational Mathematics; Methods and Algorithms Optimization; Network Technology and Application; System Test, Diagnosis, Detection and Monitoring; Recognition, Video and Image Processing.

Select Proceedings of VICFCNT 2020 Springer Nature
5G Outlook - Innovations and Applications is a collection of the recent research and development in the area of the Fifth Generation Mobile Technology (5G), the future of wireless communications. Plenty of novel ideas and knowledge of the 5G are presented in this book as well as divers applications from health science to business modeling. The authors of different

chapters contributed from various countries and organizations. The chapters have also been presented at the 5th IEEE 5G Summit held in Aalborg on July 1, 2016. The book starts with a comprehensive introduction on 5G and its need and requirement. Then millimeter waves as a promising spectrum to 5G technology is discussed. The book continues with the novel and inspiring ideas for the future wireless communication usage and network. Further, some technical issues in signal processing and network design for 5G are presented. Finally, the book ends up with different applications of 5G in distinct areas. Topics widely covered in this book are: 5G technology from past to present to the future Millimeter- waves and their characteristics Signal processing and network design issues for 5G Applications, business modeling and several novel ideas for the future of 5G Springer

Fully revised and updated version of the successful "Advanced Wireless Communications" Wireless communications continue to attract the attention of both research community and industry. Since the first edition was published significant research and industry activities have brought the fourth generation (4G) of wireless communications systems closer to implementation and standardization. "Advanced Wireless Communications" continues to provide a comparative study of enabling technologies for 4G. This second edition has been revised and updated and now includes additional information on the components of common air interface, including the area of space time coding , multicarrier modulation especially OFDM, MIMO, cognitive radio and cooperative transmission. Ideal for students and engineers in research and development in the field of wireless communications, the second edition of Advanced Wireless Communications also gives an understanding to current

approaches for engineers in telecomm operators, government and regulatory institutions. New features include: Brand new chapter covering linear precoding in MIMO channels based on convex optimization theory. Material based on game theory modelling encompassing problems of adjacent cell interference, flexible spectra sharing and cooperation between the nodes in ad hoc networks. Presents and discusses the latest schemes for interference suppression in ultra wide band (UWB) cognitive systems. Discusses the cooperative transmission and more details on positioning.

Advanced Wireless Communications River Publishers

This definitive handbook demystifies personal-area networking technologies and protocols and explores their application potential in a unique real-world context.

Computing Fundamentals diplom.de

This two-volume book constitutes the refereed proceedings of the 3rd International Conference on Multimedia Technology and Enhanced Learning, ICMTEL 2021, held in April 2021. Due to the COVID-19 pandemic the conference was held virtually. The 97 revised full papers have been selected from 208 submissions. They describe new learning technologies which range from smart school, smart class and smart learning at home and which have been developed from new technologies such as machine learning, multimedia and Internet of Things.

Weaving Services and People on the World Wide Web Springer Nature

This book gathers selected high-impact articles from the 1st International Conference on Data Science, Machine Learning & Applications 2019. It highlights the latest developments in the areas of Artificial Intelligence, Machine Learning, Soft Computing, Human-Computer Interaction and various data science & machine

learning applications. It brings together scientists and researchers from different universities and industries around the world to showcase a broad range of perspectives, practices and technical expertise.

Cognitive Technologies Cambridge University Press

From smartphone apps to tablet PCs and social networks, any business can use technology to increase ROI and boost productivity without sacrificing quality or customer service. A complete guide with hints, tips and advice for modern executives of all experience levels, small business expert and entrepreneur Scott Steinberg reveals how to tap their power within. From marketing and management to leadership, advertising and public relations, learn how to slash costs and maximize productivity using today's latest high-tech innovations. Every business - and business plan - can profit from keeping up with IT advances. Join us as we reveal how to give yours an upgrade. Includes: Best Business Apps, Gadgets, Online Services - Social Media Secrets: Facebook, Twitter, Google+ - Advertising and PR on Any Budget - Online Marketing and SEO - IT Security Tips - How to Start Any Business Overnight "The one book every entrepreneur should keep handy." Gary Shapiro, CEO, Consumer Electronics Association

New Perspectives in Information Systems and Technologies, Volume 2 Springer Science & Business Media

This book focuses on the next generation optical networks as well as mobile communication technologies. The reader will find chapters on Cognitive Optical Network, 5G Cognitive Wireless, LTE, Data Analysis and Natural Language Processing. It also presents a comprehensive view of the enhancements and requirements foreseen for Machine Type Communication. Moreover, some data analysis techniques and Brazilian Portuguese natural language processing technologies are also described here.

Communications & Strategies Springer

This book presents select proceedings of the International Conference on Futuristic Communication and Network Technologies (CFCNT 2020) conducted at Vellore Institute of Technology, Chennai. It covers various domains in communication engineering and networking technologies. This volume comprises of recent research in areas like optical communication, optical networks, optics and optical computing, emerging trends in

photonics, MEMS and sensors, active and passive RF components and devices, antenna systems and applications, RF devices and antennas for microwave emerging technologies, wireless communication for future networks, signal and image processing, machine learning/AI for networks, internet of intelligent things, network security and blockchain technologies. This book will be useful for researchers, professionals, and engineers working in the core areas of electronics and communication.

5G Outlook- Innovations and Applications Lulu.com

Covers the status of wireless networks and their future potential as the industry prepares for 4G. This work adopts a logical approach, beginning each chapter with introductory material, before proceeding to more advanced topics and tools for system analysis.

Wired Communications and Management Springer Science & Business Media

The Handbook of Information Security is a definitive 3-volume handbook that offers coverage of both established and cutting-edge theories and developments on information and computer security. The text contains 180 articles from over 200 leading experts, providing the benchmark resource for information security, network security, information privacy, and information warfare.

Proceedings of the Seventh Annual Mediterranean Ad Hoc Networking Workshop, Palma de Mallorca, Spain, June 25-27, 2008 John Wiley & Sons

A comprehensive and self-contained exploration of cutting-edge applications in adaptive wireless communications, perfect for self-study.

Bridging the Gap Between Theory and Practice Springer

Advanced Antenna Systems for 5G Network Deployments:

Bridging the Gap between Theory and Practice provides a comprehensive understanding of the field of advanced antenna systems (AAS) and how they can be deployed in 5G networks. The book gives a thorough understanding of the basic technology components, the state-of-the-art multi-antenna solutions, what support 3GPP has standardized together with the reasoning, AAS performance in real networks, and how AAS can be used to enhance network deployments. Explains how AAS features impact network performance and how AAS can be effectively used in a 5G network, based on either NR and/or LTE Shows what AAS

configurations and features to use in different network deployment scenarios, focusing on mobile broadband, but also including fixed wireless access Presents the latest developments in multi-antenna technologies, including Beamforming, MIMO and cell shaping, along with the potential of different technologies in a commercial network context Provides a deep understanding of the differences between mid-band and mm-Wave solutions Fundamentals of WiMAX Springer Science & Business Media Principles of Mobile Communication provides an authoritative treatment of the fundamentals of mobile communications, one of the fastest growing areas of the modern telecommunications industry. The book stresses the fundamentals of mobile communications engineering that are important for the design of any mobile system. Less emphasis is placed on the description of existing and proposed wireless standards. This focus on fundamental issues should be of benefit not only to students taking formal instruction but also to practising engineers who are likely to already have a detailed familiarity with the standards and are seeking to deepen their knowledge of this important field. The book stresses mathematical modeling and analysis, rather than providing a qualitative overview. It has been specifically developed as a textbook for graduate level instruction and a reference book for practising engineers and those seeking to pursue research in the area. The book contains sufficient background material for the novice, yet enough advanced material for a sequence of graduate level courses. Principles of Mobile Communication treats a variety of contemporary issues, many of which have been treated before only in the journals. Some material in the book has never appeared before in the literature. The book provides an up-to-date treatment of the subject area at a level of detail that is not available in other books. Also, the book is unique in that the whole range of topics covered is not presently available in any other book. Throughout the book, detailed derivations are provided and extensive references to the literature are made. This is of value to the reader wishing to gain detailed knowledge of a particular topic. Information Networking: Wired Communications and Management John Wiley & Sons

This book reports the latest advances on the design and development of mobile computing systems, describing their applications in the context of modeling, analysis and efficient

resource management. It explores the challenges on mobile computing and resource management paradigms, including research efforts and approaches recently carried out in response to them to address future open-ended issues. The book includes 26 rigorously refereed chapters written by leading international researchers, providing the readers with technical and scientific information about various aspects of mobile computing, from basic concepts to advanced findings, reporting the state-of-the-art on resource management in such environments. It is mainly intended as a reference guide for researchers and practitioners involved in the design, development and applications of mobile computing systems, seeking solutions to related issues. It also represents a useful textbook for advanced undergraduate and graduate courses, addressing special topics such as: mobile and ad-hoc wireless networks; peer-to-peer systems for mobile computing; novel resource management techniques in cognitive radio networks; and power management in mobile computing systems.

Systems, Architectures, and Management Springer

The International Conference on Networking (ICN 2005) was the fourth conference in its series aimed at stimulating technical exchange in the emerging and important field of networking. On behalf of the International Advisory Committee, it is our great pleasure to welcome you to the proceedings of the 2005 event. Networking faces dramatic changes due to the customer-centric view, the venue of the next generation networks paradigm, the push from ubiquitous networking, and the new service models. Despite legacy problems, which researchers and industry are still discovering and improving the state of the art, the horizon has revealed new challenges that some of the authors tackled through their submissions. In fact, ICN 2005 was very well perceived by the international networking community. A total of 651 papers from more than 60 countries were submitted, from which 238 were accepted. Each paper was reviewed by several members of the Technical Program Committee. This year, the Advisory Committee revalidated various accepted papers after the reviews had been incorporated. We perceived a significant improvement in the number of submissions and the quality of the submissions.

The ICN 2005 program covered a variety of research topics that are of current

interest, starting with Grid networks, multicasting, TCP optimizations, QoS and security, emergency services, and network resiliency. The Program Committee selected also three tutorials and invited speakers that addressed the latest - search results from the international industries and academia, and reports on findings from mobile, satellite, and personal communications related to 3rd- and 4th-generation research projects and standardization.

The Global Wireless Sector Advanced Wireless Communications 4G Cognitive and Cooperative Broadband Technology

Ever since its inception, the Web has changed the landscape of human experiences on how we interact with one another and data through service infrastructures via various computing devices.

This interweaving environment is now becoming ever more embedded into devices and systems that integrate seamlessly on how we live, both in our working or leisure time. For this volume, King and Baeza-Yates selected some pioneering and cutting-edge research work that is pointing to the future of the Web. Based on the Workshop Track of the 17th International World Wide Web Conference (WWW2008) in Beijing, they selected the top contributions and asked the authors to resubmit their work with a minimum of one third of additional material from their original workshop manuscripts to be considered for this volume. After a second-round of reviews and selection, 16 contributions were finally accepted. The work within this volume represents the tip of an iceberg of the many exciting advancements on the WWW. It covers topics like semantic web services, location-based and mobile applications, personalized and context-dependent user interfaces, social networks, and folksonomies. The presentations aim at researchers in academia and industry by showcasing latest research findings. Overall they deliver an excellent picture of the current state-of-the-art, and will also serve as the basis for ongoing research discussions and point to new directions.

The Industry Implications of DVB-S2X, High Throughput Satellites, Ultra HD, M2M, and IP Springer

Master the tools and techniques of mobile forensic investigations. Conduct mobile forensic investigations that are legal, ethical, and highly effective using the detailed information contained in this practical guide. *Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation, Second Edition* fully explains the latest tools and methods along with features, examples, and real-world case studies. Find out how to assemble

a mobile forensics lab, collect prosecutable evidence, uncover hidden files, and lock down the chain of custody. This comprehensive resource shows not only how to collect and analyze mobile device data but also how to accurately document your investigations to deliver court-ready documents. • Legally seize mobile devices, USB drives, SD cards, and SIM cards • Uncover sensitive data through both physical and logical techniques • Properly package, document, transport, and store evidence • Work with free, open source, and commercial forensic software • Perform a deep dive analysis of iOS, Android, and Windows Phone file systems • Extract evidence from application, cache, and user storage files • Extract and analyze data from IoT devices, drones, wearables, and infotainment systems • Build SQLite queries and Python scripts for mobile device file interrogation • Prepare reports that will hold up to judicial and defense scrutiny

Marketing Scheme on Peer-to-Peer (P2P) Communication Software Anticipating 4G CRC Press

This book constitutes the refereed proceedings of the First International Conference on Future Internet Technologies and Trends, ICFITT 2017, held in Surat, India, August 31 - September 2, 2017. The 28 full papers were selected from 66 submissions and present next generation requirements for extremely high speed data communications, IoT, security, broadband technology, cognitive radio, vehicular technology, gigabit wireless networks, data management and big data

A Bell Labs Perspective Springer

This volume contains the proceedings of the Seventh Mediterranean Ad Hoc Networking Workshop (Med-Hoc-Net'2008), celebrated in Palma de Mallorca (Illes Balears, Spain) during June 25-27, 2008. This IFIP TC6 Workshop was organized by the Universitat de les Illes Balears in cooperation with the Asociación de Técnicos de Informática and sponsored by the following Working Groups: WG6.3 (Performance of Computer Networks) and WG6.8 (Mobile and Wireless Communications). The rapid evolution of the networking industry introduces new exciting challenges that need to be explored by the research community. Aside the adoption of Internet as the global network infrastructure these last years have shown the growing of a set of new network architectures without a rigid and known a priori architecture using wireless techniques, like sensor and ad-hoc networks. These new

types of networks are opening the possibility to create a large number of new applications ranging from domestic to nature surveying. These new networks are generating new technical challenges like the capability of auto-reconfiguration in order to

give the network an optimal configuration, the energy saving need when the nodes have not a source of energy other than a small battery, new protocols to access the network and to convey

the information across the network when its structure is not completely known or should be discovered, new paradigms for keeping the needed information security and privacy in a quite uncontrolled environment, and others.