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Power System Stability and Control, Third Edition John Wiley & Sons

The two volume set CCIS 775 and 776 constitutes the refereed proceedings of the First International Conference on Computational Intelligence, Communications, and Business Analytics, CICBA 2017, held in Kolkata, India, in March 2017. The 90 revised full papers presented in the two volumes were carefully reviewed and selected from 276 submissions. The papers are organized in topical sections on data science and advanced data analytics; signal processing and communications; microelectronics, sensors, intelligent networks; computational forensics (privacy and security); computational intelligence in bio-computing; computational intelligence in mobile and quantum computing; intelligent data mining and data warehousing; computational intelligence.

Proceedings of 2021 Chinese Intelligent Systems Conference

Elsevier

The two-volume set LNCS 11944-11945 constitutes the proceedings of the 19th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2019, held in Melbourne, Australia, in December 2019. The 73 full and 29 short papers presented were carefully reviewed and selected from 251 submissions. The papers are organized in topical sections on: Parallel and Distributed Architectures, Software Systems and Programming Models, Distributed and Parallel and Network-based Computing, Big Data and its Applications, Distributed and Parallel Algorithms, Applications of Distributed and Parallel Computing, Service Dependability and Security, IoT and CPS Computing, Performance Modelling and Evaluation.

Network Security and Communication Engineering Springer Nature  
E-PAPER DISPLAYS An in-depth introduction to a promising technology, curated by one of its pioneering inventors Electronic paper (e-paper) has one of the most promising futures in technology. E-paper's potential is unlimited, as the displays require

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extremely low power and imitate the aesthetic of ink on the page. This allows e-paper devices to have a wider range of viewing angles than traditional LED products and are capable of being viewed in direct sunlight—and without any additional power. As a result, e-paper displays create less eye strain, have a greater flexibility in their use, and have the potential to be used in place of paper for billboard advertising, educational applications, and transport signage, and more. In *E-Paper Displays*, editor Bo-Ru Yang and his team of experts present a detailed view into the important technologies involved in e-paper displays, with a particular emphasis on how this technology's unique properties make possible a wide range of personal and professional electronic products. As climate change makes efficient energy use more important than ever, e-paper can become an essential tool for future products on a large scale. As we rely more and more on technology, having lightweight devices with long battery life will become critical. This book provides engineers and innovators with an introduction to this important technology and shows new pathways for development. *E-Paper Displays* readers will also find: The editor is one of the leading pioneers in this technology. Contributions from an international team of experts in e-paper technology. Descriptions of many advanced display types that rely on different principles than the widely used LCD and OLED types. Another innovative title from Wiley. SID (Society for Information Displays) series. As we enter a new stage in our industrial

development, *E-Paper Displays* is an essential reference for computer engineers and developers, as well as innovators and scientists, and their students.

### **Blockchain for 6G-Enabled Network-Based Applications MDPI**

Introduces advanced high-capacity data encoding and throughput improvement techniques for fully printable multi-bit Chipless RFID tags and reader systems. The book proposes new approaches to chipless RFID tag encoding and tag detection that supersede their predecessors in signal processing, tag design, and reader architectures. The text is divided into two main sections: the first section introduces the fundamentals of electromagnetic (EM) imaging at mm-wave band to enhance the content capacity of Chipless RFID systems. The EM Imaging through Synthetic Aperture Radar (SAR) technique is used for data extraction. The second section presents a few smart tag detection techniques for existing chipless RFID systems. A Multiple-Input and Multiple-Output (MIMO) based tag detection technique improves the spectral efficiency and increases data bit capacity. The book concludes with a discussion of how the MIMO approach can be combined with the image based technique to introduce a complete solution with a fast imaging approach to chipless RFID systems. The book has the following salient features: Discusses new approaches to chipless RFID tags such as EM imaging, high capacity data encoding, and robust tag detection techniques. Presents techniques to enhance data content capacity of tags and reliable tag

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detection for the readers at unlicensed microwave and mm-wave 2.45, 24 and 60 GHz instrumentation, scientific and medical (ISM) frequency bands Includes case studies of real-world applications

*9th International Conference on Information and Knowledge Technology (IKT 2017)* Springer

mmWave Massive MIMO: A Paradigm for 5G is the first book of its kind to hinge together related discussions on mmWave and Massive MIMO under the umbrella of 5G networks. New networking scenarios are identified, along with fundamental design requirements for mmWave Massive MIMO networks from an architectural and practical perspective. Working towards final deployment, this book updates the research community on the current mmWave Massive MIMO roadmap, taking into account the future emerging technologies emanating from 3GPP/IEEE. The book's editors draw on their vast experience in international research on the forefront of the mmWave Massive MIMO research arena and standardization. This book aims to talk openly about the topic, and will serve as a useful reference not only for postgraduates students to learn more on this evolving field, but also as inspiration for mobile communication researchers who want to make further innovative strides in the field to mark their legacy in the 5G arena.

Contains tutorials on the basics of mmWave and Massive MIMO Identifies new 5G networking scenarios, along with design requirements from an architectural and practical perspective Details the latest updates on the evolution of the mmWave Massive MIMO roadmap, considering future emerging technologies emanating from 3GPP/IEEE Includes contributions

from leading experts in the field in modeling and prototype design for mmWave Massive MIMO design Presents an ideal reference that not only helps postgraduate students learn more in this evolving field, but also inspires mobile communication researchers towards further innovation

**Lecture Notes in Real-Time Intelligent Systems** Springer

The book presents selected research papers on current developments in the field of soft computing and signal processing from the International Conference on Soft Computing and Signal Processing (ICSCSP 2018). It includes papers on current topics such as soft sets, rough sets, fuzzy logic, neural networks, genetic algorithms and machine learning, discussing various aspects of these topics, like technological, product implementation, contemporary research as well as application issues.

**Communications, Signal Processing, and Systems** Springer

This book presents the proceedings of the 17th Chinese Intelligent Systems Conference, held in Fuzhou, China, on Oct 16-17, 2021. It focuses on new theoretical results and techniques in the field of intelligent systems and control. This is achieved by providing in-depth study on a number of major topics such as Multi-Agent Systems, Complex Networks, Intelligent Robots, Complex System Theory and Swarm Behavior, Event-Triggered Control and Data-Driven Control, Robust and Adaptive Control, Big Data and Brain Science, Process Control, Intelligent Sensor and Detection Technology, Deep learning and Learning Control Guidance, Navigation and Control of Flight Vehicles and so on. The book is particularly suited for readers who are interested in learning intelligent system and control and artificial intelligence. The book can benefit researchers, engineers, and graduate students.

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### Artificial Intelligence in Power System Optimization Springer Nature

Fundamentals of 5G Mobile Networks provides an overview of the key features of the 5th Generation (5G) mobile networks, discussing the motivation for 5G and the main challenges in developing this new technology. This book provides an insight into the key areas of research that will define this new system technology paving the path towards future research and development. The book is multidisciplinary in nature, and aims to cover a whole host of intertwined subjects that will predominantly influence the 5G landscape, including the future Internet, cloud computing, small cells and self-organizing networks (SONs), cooperative communications, dynamic spectrum management and cognitive radio, Broadcast-Broadband convergence, 5G security challenge, and green RF. This book aims to be the first of its kind towards painting a holistic perspective on 5G Mobile, allowing 5G stakeholders to capture key technology trends on different layering domains and to identify potential inter-disciplinary design aspects that need to be solved in order to deliver a 5G Mobile system that operates seamlessly.

### Scientific and Technical Information Output of the Langley Research Center for Calendar Year 1980 Springer Nature

This book aims to develop professional and practical microcontroller applications in the ARM-MDK environment with Texas Instruments MSP432P401R LaunchPad kits. It introduces ARM Cortex-M4 MCU by highlighting the most important elements, including: registers, pipelines, memory, and I/O ports. With the updated MSP432P401R Evaluation Board (EVB), MSP-EXP432P401R, this MCU provides various control functions with multiple peripherals to enable users to develop and build various modern control projects with rich control strategies. Microcontroller programming is approached with basic and straightforward programming codes to reduce learning curves, and furthermore to enable students to build embedded applications in more efficient

and interesting ways. For authentic examples, 37 Class programming projects are built into the book that use MSP432P401R MCU. Additionally, approximately 40 Lab programming projects with MSP432P401R MCU are included to be assigned as homework.

### **Network Control and Engineering for QoS, Security and Mobility II** Springer Nature

This book constitutes the refereed proceedings of the 13th IFIP WG 11.11 International Conference on Trust Management, IFIPTM 2019, held in Copenhagen, Denmark, in July 2019. The 7 revised full papers, 3 short papers, and 6 work-in-progress papers presented were carefully reviewed and selected from 32 submissions. The papers cover a broad range of topics related to trust, security and privacy and focus on trust in information technology and identity management, socio-technical and sociological trust, and emerging technology for trust.

### *Computational Intelligence, Communications, and Business Analytics* Springer

The conference on network security and communication engineering is meant to serve as a forum for exchanging new developments and research progress between scholars, scientists and engineers all over the world and providing a unique opportunity to exchange information, to present the latest results as well as to review the relevant issues on

*Soft Computing and Signal Processing* IOS Press  
Optical Fiber Telecommunications V (A&B) is the fifth in a series that has chronicled the progress in the research and development of lightwave communications since the early 1970s. Written by active authorities from academia and industry, this edition not only brings a fresh look to many essential topics but also focuses on network management and services. Using high bandwidth in a cost-effective manner for the development of customer applications is a central theme. This book is ideal for R&D engineers and managers, optical systems implementers, university researchers and students, network operators, and the investment community. Volume (A) is devoted to components and subsystems, including: semiconductor lasers, modulators, photodetectors, integrated photonic circuits, photonic crystals, specialty fibers, polarization-mode dispersion, electronic signal

processing, MEMS, nonlinear optical signal processing, and quantum information technologies. Volume (B) is devoted to systems and networks, including: advanced modulation formats, coherent systems, time-multiplexed systems, performance monitoring, reconfigurable add-drop multiplexers, Ethernet technologies, broadband access and services, metro networks, long-haul transmission, optical switching, microwave photonics, computer interconnections, and simulation tools. Biographical Sketches Ivan Kaminow retired from Bell Labs in 1996 after a 42-year career. He conducted seminal studies on electrooptic modulators and materials, Raman scattering in ferroelectrics, integrated optics, semiconductor lasers (DBR, ridge-waveguide InGaAsP and multi-frequency), birefringent optical fibers, and WDM networks. Later, he led research on WDM components (EDFAs, AWGs and fiber Fabry-Perot Filters), and on WDM local and wide area networks. He is a member of the National Academy of Engineering and a recipient of the IEEE/OSA John Tyndall, OSA Charles Townes and IEEE/LEOS Quantum Electronics Awards. Since 2004, he has been Adjunct Professor of Electrical Engineering at the University of California, Berkeley. Tingye Li retired from AT&T in 1998 after a 41-year career at Bell Labs and AT&T Labs. His seminal work on laser resonator modes is considered a classic. Since the late 1960s, He and his groups have conducted pioneering studies on lightwave technologies and systems. He led the work on amplified WDM transmission systems and championed their deployment for upgrading network capacity. He is a member of the National Academy of Engineering and a foreign member of the Chinese Academy of Engineering. He is a recipient of the IEEE David Sarnoff Award, IEEE/OSA John Tyndall Award, OSA Ives Medal/Quinn Endowment, AT&T Science and Technology Medal, and IEEE Photonics Award. Alan Willner has worked at AT&T Bell Labs and Bellcore, and he is Professor of Electrical Engineering at the University of Southern California. He received the NSF Presidential Faculty Fellows Award from the White House, Packard Foundation Fellowship, NSF National Young Investigator Award, Fulbright Foundation Senior Scholar, IEEE LEOS Distinguished Lecturer, and USC University-Wide Award for

Excellence in Teaching. He is a Fellow of IEEE and OSA, and he has been President of the IEEE LEOS, Editor-in-Chief of the IEEE/OSA J. of Lightwave Technology, Editor-in-Chief of Optics Letters, Co-Chair of the OSA Science & Engineering Council, and General Co-Chair of the Conference on Lasers and Electro-Optics.

### *Recent Trends in Network Security and Applications* Springer Science & Business Media

This book provides a comprehensive overview of blockchain for 6G-enabled network-based applications. Following the key services of blockchain technology, this book will be instrumental to ideate and understand the necessities, challenges, and various case studies of different 6G-based applications. The emphasis is on understanding the contributions of blockchain technology in 6G-enabled applications, and its aim is to give insights into evolution, research directions, challenges, and the ways to empower 6G applications through blockchain. The book consistently emphasizes the missing connection between blockchain and 6G-enabled network applications. The entire ecosystem between these two futuristic technologies is explained in a comprehensive manner. The book constitutes a one-stop guide to students, researchers, and industry professionals. The book progresses from a general introduction toward more technical aspects while remaining easy to understand throughout. Comprehensive elaboration of material is supplemented with examples and diagrams, followed by easily understandable approaches with regard to technical information given thereon. Blockchain and its applications in 6G-enabled applications can drive many powerful solutions to real-world technical, scientific, and social

problems. This book presents the most recent and exciting advances in blockchain for 6G-enabled network applications. Overall, this book is a complete outlet and is designed exclusively for professionals, scientists, technologists, developers, designers, and researchers in network technologies around blockchain integration with IoT, blockchain technology, information technology, and 6G-enabled industrial applications. Secondary readers include professionals involved in policy making and administration, security of public data and law, network policy developers, blockchain technology experts, regulators, and decision makers in government administrations.

*Computational Network Application Tools for Performance Management* Springer Science & Business Media

This book explores a range of important theoretical and practical issues in the field of computational network application tools, while also presenting the latest advances and innovations using intelligent technology approaches. The main focus is on detecting and diagnosing complex application performance problems so that an optimal and expected level of system service can be attained and maintained. The book discusses challenging issues like enhancing system efficiency, performance, and assurance management, and blends the concept of system modeling and optimization techniques with soft computing, neural network, and sensor network approaches. In addition, it presents certain metrics and measurements that can be translated into business value. These metrics and measurements can also help to establish an empirical performance baseline for various applications, which can be used to identify changes in system performance. By presenting various intelligent technologies, the book provides readers with compact but insightful information on several broad and rapidly growing areas in the computation network application domain. The book's twenty-two chapters examine and address current and future research topics in areas like neural networks, soft computing, nature-

inspired computing, fuzzy logic and evolutionary computation, machine learning, smart security, and wireless networking, and cover a wide range of applications from pattern recognition and system modeling, to intelligent control problems and biomedical applications. The book was written to serve a broad readership, including engineers, computer scientists, management professionals, and mathematicians interested in studying tools and techniques for computational intelligence and applications for performance analysis. Featuring theoretical concepts and best practices in computational network applications, it will also be helpful for researchers, graduate and undergraduate students with an interest in the fields of soft computing, neural networks, machine learning, sensor networks, smart security, etc.

#### **Advanced Chipless RFID** CRC Press

This book illustrates how to use description logic-based formalisms to their full potential in the creation, indexing, and reuse of multimedia semantics. To do so, it introduces researchers to multimedia semantics by providing an in-depth review of state-of-the-art standards, technologies, ontologies, and software tools. It draws attention to the importance of formal grounding in the knowledge representation of multimedia objects, the potential of multimedia reasoning in intelligent multimedia applications, and presents both theoretical discussions and best practices in multimedia ontology engineering. Readers already familiar with mathematical logic, Internet, and multimedia fundamentals will learn to develop formally grounded multimedia ontologies, and map concept definitions to high-level descriptors. The core reasoning tasks, reasoning algorithms, and industry-leading reasoners are presented, while scene interpretation via reasoning is also demonstrated. Overall, this book offers readers an essential introduction to the formal grounding of web ontologies, as well as a comprehensive collection and review of description logics (DLs) from the perspectives of expressivity and reasoning complexity. It covers best practices for developing multimedia ontologies with formal grounding to guarantee decidability and obtain the desired level of expressivity while maximizing the reasoning potential. The capabilities of such multimedia ontologies are demonstrated by DL

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implementations with an emphasis on multimedia reasoning applications.

### **Graphics Recognition. Ten Years Review and Future Perspectives** CRC Press

In the current age of information explosion, newly invented technological sensors and software are now tightly integrated with our everyday lives. Many sensor processing algorithms have incorporated some forms of computational intelligence as part of their core framework in problem solving. These algorithms have the capacity to generalize and discover knowledge for themselves and learn new information whenever unseen data are captured. The primary aim of sensor processing is to develop techniques to interpret, understand, and act on information contained in the data. The interest of this book is in developing intelligent signal processing in order to pave the way for smart sensors. This involves mathematical advancement of nonlinear signal processing theory and its applications that extend far beyond traditional techniques. It bridges the boundary between theory and application, developing novel theoretically inspired methodologies targeting both longstanding and emergent signal processing applications. The topic ranges from phishing detection to integration of terrestrial laser scanning, and from fault diagnosis to bio-inspired filtering. The book will appeal to established practitioners, along with researchers and students in the emerging field of smart sensors processing.

### **Optical Fiber Telecommunications VB** CRC Press

This volume is an edition of the papers selected from the 13 International Conference on Advanced Robotics, ICAR 2007, held in Jeju, Korea, August 22-25, 2007, with the theme: "Viable Robotics Service to Human."

It is intended to deliver readers the most recent technical progress in robotics, in particular, toward the advancement of robotic service to human. To ensure its quality, this volume took only 28 papers out of the 214 papers accepted for publication for ICAR 2007. The selection was based mainly on the technical merit, but also took into consideration whether the subject represents a theme of current interest. For the final inclusion, authors of the selected papers were requested for another round of revision and expansion. In this volume, we organize the 28 contributions into three chapters. Chapter 1 covers Novel Mechanisms, Chapter 2 deals with perception guided navigation and manipulation, and Chapter 3 addresses human-robot interaction and intelligence. Chapters 1, 2 and 3 consist of 7, 13 and 8 contributions, respectively. For the sake of clarity, Chapter 2 is divided further into two parts with Part 1 for Perception Guided Navigation and Part 2 for Perception Guided Manipulation. Chapter 3 is also divided into two parts with Part 1 for Human- Robot Interaction and Part 2 for Intelligence. For the convenience of readers, a chapter summary is introduced as an overview in the beginning of each chapter. The chapter summaries were prepared by Dr. Munsang Kim for Chapter 1, Prof.

### *Data Driven Approach Towards Disruptive Technologies* Springer

Depletion of fossil fuels and petroleum products due to population explosion has created a tremendous demand for renewable energy sources. Non-conventional loads such as electric vehicles and smart residential systems are increasing daily, creating additional load to conventional utility grids. The extra energy demand is filled mainly by energy generated from renewable energy sources such as solar, wind and geothermal energy sources. This has meant that load distribution and power flow management have emerged as the most significant challenges for electrical engineers. Therefore, advanced power management systems must be designed to operate the present distribution system smoothly. The fourth industrial revolution has broken down the walls between the physical,

digital and biological worlds. Advancements in artificial intelligence, big data, machine learning, the Internet of Things (IoT), genetic engineering, and quantum computing have made the interface between machines and users very easy. The fourth industrial revolution has brought a drastic revolution for users, from controlling battery charging to planning a suitable control technique for fabricated electrical equipment. Smooth load sharing between grid and renewable energy sources, power management as per the availability of generating sources, and circumventing the sag and swell of utility grids to operate equipment smoothly is facilitated by advanced artificial intelligent techniques. The progressive machine learning approach enables the smooth operation of machines. Overall, the fourth industrial revolution has brought enormous advantages to help electrical users. The work presented in this book deals with the advanced design methods adopted by electrical researchers to facilitate smooth utilization of the fourth industrial revolution. The content of the book includes but is not limited to the following research areas:\*

Topological improvement of electrical equipment to facilitate smooth user interfaces.\* Improvement of techniques to tackle advanced power system problems such as sag, swell, reactive power imbalance and power flow management.\*

Advanced practices to facilitate smooth electric vehicle charging systems.\* Grid to smart residence (G2S) and smart residence to grid (S2G) operation of the utility grid.\* Stability analysis of the utility grid amid non-conventional loading.\* Artificial intelligence, big data and machine learning applications to power system problems.\* Intelligent controllers for an advanced residential system.\*

Intelligent storage systems for residential buildings.

*Proceedings, International Conference on Image Processing* Springer Nature

This book is a compilation of peer-reviewed papers presented at the International Conference on Machine Intelligence and Data Science Applications, organized by the School of Computer Science, University of Petroleum & Energy Studies, Dehradun, India, during 4–5 September 2020. The book addresses the algorithmic aspect of

machine intelligence which includes the framework and optimization of various states of algorithms. Variety of papers related to wide applications in various fields like data-driven industrial IoT, bioinformatics, network and security, autonomous computing and various other aligned areas. The book concludes with interdisciplinary applications like legal, health care, smart society, cyber-physical system and smart agriculture. All papers have been carefully reviewed. The book is of interest to computer science engineers, lecturers/researchers in machine intelligence discipline and engineering graduates.

**Power Distribution Conference** Institute of Electrical & Electronics Engineers(IEEE)

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.