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E-Paper Displays Springer

With contributions from worldwide leaders in the field, *Power System Stability and Control, Third Edition* (part of the five-volume set, *The Electric Power Engineering Handbook*) updates coverage of recent developments and rapid technological growth in essential aspects of power systems. Edited by L.L. Grigsby, a respected and accomplished authority in power engineering, and section editors Miroslav Begovic, Prabha Kundur, and Bruce Wollenberg, this reference presents substantially new and revised content. Topics covered include: Power System Protection Power System Dynamics and Stability Power System Operation and Control This book provides a simplified overview of advances in international standards, practices, and technologies, such as small signal stability and power system oscillations, power system stability controls, and dynamic modeling of power systems. This resource will help readers achieve safe, economical, high-quality power delivery in a dynamic and demanding environment. With five new and 10 fully revised chapters, the book supplies a high level of detail and, more importantly, a tutorial style of writing and use of photographs and graphics to help the reader understand the material. New Chapters Cover: Systems Aspects of Large Blackouts Wide-Area Monitoring and Situational Awareness Assessment of Power System Stability and Dynamic Security Performance Wind Power Integration in Power Systems FACTS Devices A volume in the *Electric Power Engineering Handbook, Third Edition*. Other volumes in the set: K12642 *Electric Power Generation, Transmission, and Distribution, Third Edition* (ISBN: 9781439856284) K12648 *Power Systems, Third Edition* (ISBN: 9781439856338) K12650 *Electric Power Substations Engineering, Third Edition* (9781439856383) K12643 *Electric Power Transformer Engineering, Third Edition* (9781439856291)

Communications, Signal Processing, and Systems Springer

With the considerable increase of AI applications, AI is being increasingly used to solve optimization problems in engineering. In the past two decades, the applications of artificial intelligence in power systems have attracted much research. This book covers the current level of applications of artificial intelligence to the optimization problems in power systems. This book serves as a textbook for graduate students in electric power

system management and is also useful for those who are interested in using artificial intelligence in power system optimization.

Resource Management in Mobile Computing Environments Springer
Science & Business Media

The Third International Conference on Network Security and Applications (CNSA-2010) focused on all technical and practical aspects of security and its applications for wired and wireless networks. The goal of this conference is to bring together researchers and practitioners from academia and industry to focus on understanding modern security threats and countermeasures, and establishing new collaborations in these areas. Authors are invited to contribute to the conference by submitting articles that illustrate research results, projects, survey work and industrial experiences describing significant advances in the areas of security and its applications, including:

- Network and Wireless Network Security
- Mobile, Ad Hoc and Sensor Network Security
- Peer-to-Peer Network Security
- Database and System Security
- Intrusion Detection and Prevention
- Internet Security, and Applications Security and Network Management
- E-mail Security, Spam, Phishing, E-mail Fraud
- Virus, Worms, Trojon Protection
- Security Threats and Countermeasures (DDoS, MiM, Session Hijacking, Replay attack etc.)
- Ubiquitous Computing Security
- Web 2. 0 Security
- Cryptographic Protocols
- Performance Evaluations of Protocols and Security Application

There were 182 submissions to the conference and the Program Committee selected 63 papers for publication. The book is organized as a collection of papers from the First International Workshop on Trust Management in P2P Systems (IWTMP2PS 2010), the First International Workshop on Database Management Systems (DMS-2010), and the First International Workshop on Mobile, Wireless and Networks Security (MWNS-2010).

Trust Management XIII 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 postgraduate 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

Proceedings of 2021 Chinese Intelligent Systems Conference Springer Nature

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 Springer

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.

Power Distribution Conference CRC Press

This book constitutes the thoroughly refereed post-proceedings of the 6th International Workshop on Graphics Recognition, GREC 2005, held in Hong Kong, China, August 2005. The book presents 37 revised full papers together with a panel discussion report, organized in topical sections on engineering drawings vectorization and recognition, symbol recognition, graphic image analysis, structural document analysis, sketching and online graphics recognition, curves and shape processing, and graphics recognition contest results.

Algorithms and Architectures for Parallel Processing 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.

Microcontroller Engineering with MSP432 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 multi-disciplinary 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.

John Wiley & Sons

Proceedings of the 13th Space Photovoltaic Research and Technology Conference (SPRAT

13)Blockchain for 6G-Enabled Network-Based ApplicationsCRC Press

Statistical-physical Models of Man-made and Natural Radio Noise Academic Press

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.

Computational Network Application Tools for Performance Management 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.

Description Logics in Multimedia Reasoning CRC Press

Service and network providers must be able to satisfy the demands for new services, improve the quality of service, reduce the cost of network service operations and maintenance, control performance and adapt to user demands. These challenges are so important for the future of our communication environment that it is essential to investigate different approaches for controlling and optimizing network resources. Network Control and Engineering for QoS, Security and Mobility II addresses the problem of network control and engineering with a focus on control of quality of service, management of security, and supervision of mobility. New trends in these different fields are also investigated. This volume contains the proceedings of the Second International Conference on NETwork CONtrol and Engineering (NETCON) for Quality of Service, Security and Mobility, which convened in Oman in October 2003. The conference was sponsored by the International Federation for Information Processing (IFIP) and organized by IFIP's Working Groups 6.2 on Network and Internetwork Architecture, 6.6 on Network Management, and 6.7 on Smart Networks.

Advanced Chipless RFID IOS Press

Welcome to the proceedings of the 10th Pacific Rim Conference on Multimedia (PCM 2009) held in Bangkok, Thailand, December 15-18, 2009. Since its inception in 2000, PCM has rapidly grown into a major conference on multimedia in the Asia-Pacific Rim region and has built up its reputation around the world. Following the success of the preceding conferences, PCM 2008 in Taiwan, PCM 2007 in Hong Kong, PCM 2006 in China, PCM 2005 in Korea, PCM 2004 in Japan, PCM 2003 in Singapore, PCM 2002 in Taiwan, PCM 2001 in China, and PCM 2000 in Australia, the tenth PCM brought researchers, developers, practitioners, and educators together to disseminate their new discoveries in the field of multimedia. Theoretical breakthroughs and practical systems were presented at this conference, thanks to the support of Naresuan University, Mahanakorn University

of Technology, and the IEEE Thailand Section. PCM 2009 featured a comprehensive program including keynote talks, regular - per presentations, posters, and special sessions. We received 171 papers from 16 countries including Australia, Sweden, German, Italy, Iran, France, Canada, China, Japan, Korea, Malaysia, Singapore, Taiwan, Hong Kong, the UK, and the USA. After a rigorous review process, we accepted only 67 oral presentations and 45 poster presentations. Four special sessions were also organized by world-leading researchers.

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

Fundamentals of 5G Mobile Networks John Wiley & Sons

Leading experts explore the exotic properties and exciting applications of electromagnetic metamaterials. Metamaterials: Physics and Engineering Explorations gives readers a clearly written, richly illustrated introduction to the most recent research developments in the area of electromagnetic metamaterials. It explores the fundamental physics, the designs, and the engineering aspects, and points to a myriad of exciting potential applications. The editors, acknowledged leaders in the field of metamaterials, have invited a group of leading researchers to present both their own findings and the full array of state-of-the-art applications for antennas, waveguides, devices, and components. Following a brief overview of the history of artificial materials, the publication divides its coverage into two major classes of metamaterials. The first half of the publication examines effective media with single (SNG) and double negative (DNG) properties; the second half examines electromagnetic band gap (EBG) structures. The book further divides each of these classes into their three-dimensional (3D volumetric) and two-dimensional (2D planar or surface) realizations. Examples of each type of metamaterial are presented, and their known and anticipated properties are reviewed. Collectively, Metamaterials: Physics and Engineering Explorations presents a review of recent research advances associated with a highly diverse set of electromagnetic metamaterials. Its multifaceted approach offers readers a combination of theoretical, numerical, and experimental perspectives for a better understanding of their behaviors and their potential applications in components, devices, and systems. Extensive reference lists provide opportunities to explore individual topics and classes of metamaterials in greater depth. With full-color illustrations throughout to clarify concepts and help visualize actual results, this book provides a dynamic, user-friendly resource for students, engineers, physicists, and other researchers in the areas of electromagnetic

materials, microwaves, millimeter waves, and optics. It equips newcomers with a basic understanding of metamaterials and their potential applications. Advanced researchers will benefit from thought-provoking perspectives that will deepen their knowledge and lead them to new areas of investigation.

Lecture Notes in Real-Time Intelligent Systems CRC Press

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.

Power System Stability and Control, Third Edition Elsevier

This book gathers a collection of high-quality peer-reviewed research papers presented at the 2nd International Conference on Data and Information Sciences (ICDIS 2019), held at Raja Balwant Singh Engineering Technical Campus, Agra, India, on March 29 – 30, 2019. In chapters written by leading researchers, developers, and practitioners from academia and industry, it covers virtually all aspects of computational sciences and information security, including central topics like artificial intelligence, cloud computing, and big data. Highlighting the latest developments and technical solutions, it will show readers from the computer industry how to capitalize on key advances in next-generation computer and communication technology.

Energy Research Abstracts CRC Press

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.

Power Systems in the Fourth Industrial Revolution Springer Science & Business Media

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.