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Algorithms and Architectures for Parallel Processing Springer Nature

A fully expanded new edition documenting the significant improvements that have been made to the tests and monitors of electrical insulation systems *Electrical Insulation for Rotating Machines: Design, Evaluation, Aging, Testing, and Repair, Second Edition* covers all aspects in the design, deterioration, testing, and repair of the electrical insulation used in motors and generators of all ratings greater than fractional horsepower size. It discusses both rotor and stator windings; gives a historical overview of machine insulation design; and describes the materials and manufacturing methods of the rotor and stator winding insulation systems in current use (while covering systems made over fifty years ago). It covers how to select the insulation systems for use in new machines, and explains over thirty different rotor and stator winding failure processes, including the methods to repair, or least slow down, each process. Finally, it reviews the theoretical basis, practical

application, and interpretation of forty different tests and monitors that are used to assess winding insulation condition, thereby helping machine users avoid unnecessary machine failures and reduce maintenance costs. *Electrical Insulation for Rotating Machines: Documents the large array of machine electrical failure mechanisms, repair methods, and test techniques that are currently available* Educates owners of machines as well as repair shops on the different failure processes and shows them how to fix or otherwise ameliorate them Offers chapters on testing, monitoring, and maintenance strategies that assist in educating machine users and repair shops on the tests needed for specific situations and how to minimize motor and generator maintenance costs Captures the state of both the present and past "art" in rotating machine insulation system design and manufacture, which helps designers learn from the knowledge acquired by previous generations An ideal read for researchers, developers, and manufacturers of electrical insulating materials for machines, *Electrical Insulation for Rotating Machines* will also benefit designers of motors and generators who must select and apply electrical insulation in machines.

[Energy Research Abstracts](#) IOS Press

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 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.

Soft Computing and Signal Processing 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.

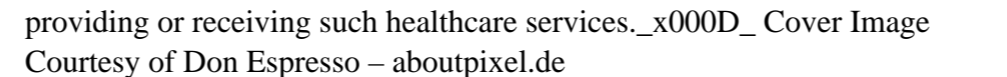
Artificial Intelligence in Power System Optimization Springer Nature

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.

Fundamentals of 5G Mobile Networks Springer

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.

Blockchain for 6G-Enabled Network-Based Applications Springer
Microsystems, smart textiles, telemedicine, mobile computing, smart implants, sensor-controlled medical devices, and innovative sensor and actuator principles and techniques have become important enablers, not only for monitoring, diagnosis and treatment in both inpatient and outpatient care, but also for personalized, preventive, predictive

participative systems medicine. This book contains the proceedings of pHealth 2014, the 11th in a series of successful international conferences on wearable or implantable micro and nano technologies for personalized medicine, held in Vienna, Austria, in June 2014. This conference combined the presentation of emerging principles, future visions and use with a careful analysis of lessons learned from international and national research and development activities and practical solutions. Included here are the keynotes, as well as the oral presentations and poster presentations selected after having been checked by three independent reviewers for inclusion in the conference. The new EU Framework Program for Research and Innovation, Horizon 2020, addressing pHealth implementation by focusing on technology transfer support and building ecosystems and value chains to ensure better time to market and higher impact of knowledge-based technologies, is properly reflected as well. The advances made so far in this field are just the beginning of evolutionary and revolutionary changes which will offer significant opportunities for patients and healthcare professionals alike, and this book will be of interest to all those developing, providing or receiving such healthcare services.  Courtesy of Don Espresso – aboutpixel.de

HCI International 2023 – Late Breaking Papers John Wiley & Sons

This book aims to examine innovation in the fields of computer engineering and networking. The text covers important developments in areas such as artificial intelligence, machine learning, information analysis, communication system, computer modeling, internet of things. This book presents papers from the 13th International Conference on Computer Engineering and Networks (CENet2023) held in Wuxi, China on November 3-5, 2023.

E-Paper Displays Springer

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.

Selected Papers from 2018 IEEE International Conference on High Voltage Engineering (ICHVE 2018) Elsevier

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.

Optical Fiber Telecommunications VB Springer Science & Business Media

The 2018 IEEE International Conference on High Voltage Engineering (ICHVE 2018) was held on 10–13 September 2018 in Athens, Greece, organized by the National Technical University of Athens, Greece, and endorsed by the IEEE Dielectrics and Electrical Insulation Society. This conference has attracted a great deal of attention from international researchers in the field of high voltage engineering. This conference provided not only an excellent platform to share knowledge and experiences on high voltage engineering, but also the opportunity to present the latest achievements and different emerging challenges in power engineering, including topics related to ultra-high voltage, smart grids, and new insulation materials and their dielectric properties.

Trust Management XIII Springer Nature

The reference provides interdisciplinary discussion for diverse II-VI semiconductors with a wide range of topics. The third volume of a three volume set, the book provides an up-to-date account of the present status of multifunctional II-VI semiconductors, from fundamental science and processing to their applications as various sensors, biosensors, and radiation detectors, and based on them to formulate new goals for the further research. The chapters in this volume provide a comprehensive overview of the manufacture, parameters and principles of operation of these devices. The application of these devices in various fields such as medicine, agriculture, food quality control, environment monitoring and

others is also considered. The analysis carried out shows the great potential of II-VI semiconductor-based sensors and detectors for these applications. Considers solid-state radiation detectors based on semiconductors of II-VI group and their applications; Analyzes the advantages of II-VI compounds to develop chemical and optical gas and ion sensors; Describes all types of biosensors based on II-VI semiconductors and gives examples of their use in various fields.

Computational Network Application Tools for Performance Management CRC Press

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.

Description Logics in Multimedia Reasoning John Wiley & Sons

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.

Electrical Insulation for Rotating Machines John Wiley & Sons

This book narrates an assessment of numerous advanced power converters employed on primitive phase to enhance the efficiency of power translation pertaining to renewable energy systems. It presents the mathematical modelling, analysis, and control of recent power converters topologies, namely, AC/DC, DC/DC, and DC/AC converters. Numerous advanced DC-DC Converters, namely, multi-input DC-DC Converter, Cuk, SEPIC, Zeta and so forth have been assessed mathematically using state space analysis applied with an aim to enhance power efficiency of renewable energy systems. The book: Explains various power electronics converters for different types of renewable energy sources Provides a review of the major power conversion topologies in one book Focuses on experimental analysis rather than simulation work Recommends usage of MATLAB, PSCAD, and PSIM simulation software for detailed analysis Includes DC-DC converters with reasonable peculiar power rating This book is aimed at researchers, graduate students in electric power engineering, power and industrial electronics, and renewable energy.

Power System Stability and Control, Third Edition Springer Nature

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.

Sensor Signal and Information Processing II Springer Nature

This book features a selection of articles from The 2019 International

Conference on Information Technology & Systems (ICITS'19), held at the Universidad de Las Fuerzas Armadas, in Quito, Ecuador, on 6th to 8th February 2019. ICIST is a global forum for researchers and practitioners to present and discuss recent findings and innovations, current trends, professional experiences and challenges of modern information technology and systems research, together with their technological development and applications. The main topics covered are: information and knowledge management; organizational models and information systems; software and systems modeling; software systems, architectures, applications and tools; multimedia systems and applications; computer networks, mobility and pervasive systems; intelligent and decision support systems; big data analytics and applications; human-computer interaction; ethics, computers & security; health informatics; information technologies in education; cybersecurity and cyber-defense; electromagnetics, sensors and antennas for security.

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

This book aims to examine innovation in the fields of computer engineering and networking. The text covers important developments in areas such as artificial intelligence, machine learning, information analysis, communication system, computer modeling, internet of things. This book presents papers from the 13th International Conference on Computer Engineering and Networks (CENet2023) held in Wuxi, China on November 3-5, 2023.

Foundations and Frontiers in Computer, Communication and Electrical Engineering CRC 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 presentations, posters, and special sessions. We received 171 papers from 16 countries including Australia, Sweden, Germany, 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.

Scientific and Technical Information Output of the Langley Research

Center for Calendar Year 1980 Springer

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.

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.