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Handbook of Research on Smart Power System Operation and Control - Alhelou, Hassan Haes 2019-03-15

Because society depends greatly on electric energy, power system control and protection focuses on ensuring a secure and reliable supply of power. To operate the electric systems in safe mode, the power system component should be equipped with intelligent controllers. The Handbook of Research on Smart Power System Operation and Control is a collection of innovative research on the theoretical and practical developments in smart power system operation and control that takes into account both smart grid and micro-grid systems. While highlighting topics including cybersecurity, smart grid, and wide area monitoring, this book is ideally designed for researchers, students, and industry professionals.

Intelligent Technologies for Science and Engineering - Kannadhasan S

[Advances in Mechanical and Energy Technology](#) - Sanjay Yadav 2022-06-20

This book presents the select proceedings the 2nd International Conference on Mechanical and Energy Technologies (ICMET 2021). The broad range of topics and issues covered are bulk deformation processes and sheet metal forming, composites, ceramics, and polymers processing, corrosion, heat treatment, microstructure and materials properties, energy materials, failure and fracture mechanics, friction, wear, tribology, and surface engineering, functionally graded materials, cellular materials, low friction and corrosion resistive materials for energy applications, lubricants and lubrication, machinability and formability of materials, material science and engineering, and materials for energy storage. This book will be useful for students, researchers, and professionals working in the areas of mechanical and industrial engineering, energy technologies, and allied fields.

[Self-Organized Mobile Communication Technologies and Techniques for Network Optimization](#) - Diab, Ali 2016-04-25

With increased consumer use and adoption, mobile communication technologies are faced with the challenge of creating an adequate wireless networking architecture that can support a high degree of scalability, performance, and reliability in a cost-effective manner without comprising security or quality of service. Self-Organized Mobile Communication Technologies and Techniques for Network Optimization explores self-organizing networks (SONs) as a proposed solution for the automation of mobile communication tasks that currently require significant efforts for planning, operation, and management. Emphasizing research on the latest generation of mobile communication networks, the 5th generation (5G), this publication proposes timely solutions and presents the latest developments in the field of mobile communication technologies. IT developers, engineers, graduate-level students, and researchers will find this publication to be essential to their research needs.

Applied Mechanics Reviews - 1994

ASCE Combined Index - American Society of Civil Engineers 1996

Indexes materials appearing in the Society's Journals, Transactions, Manuals and reports, Special publications, and Civil engineering.

E-Commerce, E-Business and E-Service - Garry Lee 2014-07-28

The 2014 International Conference on E-Commerce, E-Business and E-Service (EEE 2014) was held on May 1-2, 2014, Hong Kong. This proceedings volume assembles papers from various professionals, leading researchers, engineers, scientists and students and presents innovative ideas and research results focused on the progress of E-Commerce, E-Business a

Transportation Research in India - Akhilesh Kumar Maurya 2022-03-23

This co-edited book focuses on the state-of-the-art research in transportation in India. Exploring the need for a sustainable transport paradigm in India, this timely book offers solution concepts for mobility and infrastructure challenges faced by local, state, and national transport authorities. The contents provide a holistic understanding of the paradigm, considering several case-studies and study findings from the leading transportation researchers in India. At the same time, it also addresses the pressing transportation related challenges such as road user safety, traffic operation efficiency, economic and social development, non-motorized transport planning, environmental impact mitigation, energy consumption reduction, land-use, equity, freight transport planning, multimodal coordination, access for the diverse range of travellers' needs, sustainable pavement construction, and emerging vehicle technologies. The existing practices and policies in all the sectors and levels of transport are highlighted in this book with an emphasis on a broader vision for achieving sustainable and inclusive development. The information and data-driven inferences compiled in the book will be useful for practitioners, policymakers, educators, researchers, students, and individual learners.

Practical Non-destructive Testing - Baldev Raj 2002

This comprehensive book covers the five major NDT methods - liquid penetrants, eddy currents, magnetic particles, radiography and ultrasonics in detail and also considers newer methods such as acoustic emission and thermography and discusses their role in on-line monitoring of plant components. Analytical techniques such as reliability studies and statistical quality control are considered in terms of their ability to reduce inspection costs and limit down time. A useful chapter provides practical guidance on selecting the right method for a given situation.

Textiles, Identity and Innovation: Design the Future - Gianni Montagna 2018-10-03

D_TEX presents itself as a starting point at a crossroads of ideas and debates around the complex universe of Textile Design in all its forms, manifestations and dimensions. The textile universe, allied to mankind since its beginnings, is increasingly far from being an area of exhausted possibilities, each moment proposing important innovations that need a presentation, discussion and maturation space that is comprehensive and above all inter- and transdisciplinary. Presently, the disciplinary areas where the textile area is present are increasing and important, such as fashion, home textiles, technical clothing and accessories, but also construction and health, among others, and can provide new possibilities and different disciplinary areas and allowing the production of new knowledge. D_TEX proposes to join the thinking of design, with technologies, tradition, techniques, and related areas, in a single space where ideas are combined with the technique and with the projectual and research capacity, thus providing for the creation of concepts, opinions, associations of ideas, links and connections that allow the conception of ideas, products and services. The interdisciplinary nature of design is a reality that fully reaches the textile material in its essence and its practical application, through the synergy and contamination by the different

interventions that make up the multidisciplinary teams of research. The generic theme of D_TEX Textile Design Conference 2017, held at Lisbon School of Architecture of the University of Lisbon, Portugal on November 2-4, 2017, is Design the Future, starting from the crossroads of ideas and debates, a new starting point for the exploration of textile materials, their identities and innovations in all their dimensions.

International Journal of Electrical Engineering Education - 1984

Indian Science Abstracts - 2002-09

Software-Defined Radio for Engineers - Alexander M. Wyglinski 2018-04-30

Based on the popular Artech House classic, Digital Communication Systems Engineering with Software-Defined Radio, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

Advances in Artificial Intelligence and Data Engineering - Niranjana N. Chiplunkar 2020-08-13

This book presents selected peer-reviewed papers from the International Conference on Artificial Intelligence and Data Engineering (AIDE 2019). The topics covered are broadly divided into four groups: artificial intelligence, machine vision and robotics, ambient intelligence, and data engineering. The book discusses recent technological advances in the emerging fields of artificial intelligence, machine learning, robotics, virtual reality, augmented reality, bioinformatics, intelligent systems, cognitive systems, computational intelligence, neural networks, evolutionary computation, speech processing, Internet of Things, big data challenges, data mining, information retrieval, and natural language processing. Given its scope, this book can be useful for students, researchers, and professionals interested in the growing applications of artificial intelligence and data engineering.

Energy Research Abstracts - 1986

Fusion Technology 1996 - C. Varandas 2012-12-02

The objective of these proceedings was to provide a platform for the exchange of information on the design, construction and operation of fusion experiments. The technology which is being developed for the next step devices and fusion reactors was also covered.

Advances in Mechanical Processing and Design - Prita Pant 2020-11-25

This book presents selected proceedings of the International Conference on Advances in Mechanical Processing and Design (ICAMPD 2019). The contents highlight latest research in next-generation mechanical systems design, thermal and fluid systems design, materials and smart manufacturing processes, and industrial engineering. Some of the topics covered include smart materials, materials processing and applications, smart machinery and machine design, system dynamics and simulation, biomimetics, energy systems, micro- and nano-scale transport, automotive engineering, advance material characterization and testing, and green and sustainable manufacturing. Given the scope of the contents, this book can be of interest to students, researchers as well as industry professionals.

Index to IEEE Publications - Institute of Electrical and Electronics Engineers 1998

Issues for 1973- cover the entire IEEE technical literature.

Source-Synchronous Networks-On-Chip - Ayan Mandal 2013-11-19

This book describes novel methods for network-on-chip (NoC) design, using source-synchronous high-speed

resonant clocks. The authors discuss NoCs from the bottom up, providing circuit level details, before providing architectural simulations. As a result, readers will get a complete picture of how a NoC can be designed and optimized. Using the methods described in this book, readers are enabled to design NoCs that are 5X better than existing approaches in terms of latency and throughput and can also sustain a significantly greater amount of traffic.

Government Reports Announcements & Index - 1994

Integrated Imaging and Vision Techniques for Industrial Inspection - Zheng Liu 2015-09-24

This pioneering text/reference presents a detailed focus on the use of machine vision techniques in industrial inspection applications. An internationally renowned selection of experts provide insights on a range of inspection tasks, drawn from their cutting-edge work in academia and industry, covering practical issues of vision system integration for real-world applications. Topics and features: presents a comprehensive review of state-of-the-art hardware and software tools for machine vision, and the evolution of algorithms for industrial inspection; includes in-depth descriptions of advanced inspection methodologies and machine vision technologies for specific needs; discusses the latest developments and future trends in imaging and vision techniques for industrial inspection tasks; provides a focus on imaging and vision system integration, implementation, and optimization; describes the pitfalls and barriers to developing successful inspection systems for smooth and efficient manufacturing process.

Electrical Systems Design - M. K. Giridharan 2013-12-30

With energy resources becoming scarce and costly, and electrical energy being the most sought after form of energy, the designers of electrical systems are faced with the challenge of guaranteeing energy efficiency, quality and scheduling to the satisfact

Annual Index/Abstracts of SAE Technical Papers, 2006 - Society of Automotive Engineers 2007-03-30

American Doctoral Dissertations - 1984

Minimizing and Exploiting Leakage in VLSI Design - Nikhil Jayakumar 2009-12-02

Power consumption of VLSI (Very Large Scale Integrated) circuits has been growing at an alarmingly rapid rate. This increase in power consumption, coupled with the increasing demand for portable/hand-held electronics, has made power consumption a dominant concern in the design of VLSI circuits today. Traditionally, dynamic (switching) power has dominated the total power consumption of an IC. However, due to current scaling trends, leakage power has now become a major component of the total power consumption in VLSI circuits. Leakage power reduction is especially important in portable/hand-held electronics such as cell-phones and PDAs. This book presents two techniques aimed at reducing leakage power in digital VLSI ICs. The first technique reduces leakage through the selective use of high threshold voltage sleep transistors. The second technique reduces leakage by applying the optimal Reverse Body Bias (RBB) voltage. This book also shows readers how to turn the leakage problem into an opportunity, through the use of sub-threshold logic.

Innovations in Smart Cities Applications Edition 3 - Mohamed Ben Ahmed 2020-02-04

This book highlights original research and recent advances in various fields related to smart cities and their applications. It gathers papers presented at the Fourth International Conference on Smart City Applications (SCA19), held on October 2-4, 2019, in Casablanca, Morocco. Bringing together contributions by prominent researchers from around the globe, the book offers an invaluable instructional and research tool for courses on computer science, electrical engineering, and urban sciences. It is also an excellent reference guide for professionals, researchers, and academics in the field of smart cities. This book covers topics including: • Smart Citizenship • Smart Education • Digital Business and Smart Governance • Smart Health Care • New Generation of Networks and Systems for Smart Cities • Smart Grids and Electrical Engineering • Smart Mobility • Smart Security • Sustainable Building • Sustainable Environment

New Trends and Applications in Internet of Things (IoT) and Big Data Analytics - Rohit Sharma 2022-06-17

This book focuses on the use of The Internet of Things (IoT) and big data in business intelligence, data management, Hadoop, machine learning, cloud, smart cities, etc. IoT and big data emerged from the early

2000s data boom, driven forward by many of the early internet and technology companies. The Internet of Things (IoT) is an interconnection of several devices, networks, technologies, and human resources to achieve a common goal. There are a variety of IoT-based applications being used in different sectors and have succeeded in providing huge benefits to the users. The generation of big data by IoT has ruptured the existing data processing capacity of IoT and recommends to adopt the data analytics to strengthen solutions. The success of IoT depends upon the influential association of big data analytics. New technologies like search engines, mobile devices, and industrial machines provided as much data as companies could handle—and the scale continues to grow. In a study conducted by IDC, the market intelligence firm estimated that the global production of data would grow 10x between 2015 and 2020. So, the proposed book covers up all the aspects in the field discuss above.

Microstrip Antennas - David M. Pozar 1995-05-15

"This anthology combines 15 years of microstrip antenna technology research into one significant volume and includes a special introductory tutorial by the co-editors. Covering theory, design and modeling techniques and methods, this source book is an excellent reference tool for engineers who want to become more familiar with microstrip antennas and microwave systems. Proven antenna designs, novel solutions to practical design problems and relevant papers describing the theory of operation and analysis of microstrip antennas are contained within this convenient reference."

[Proceedings of the 3rd International Conference on Intelligent and Interactive Computing 2021](#) - Sarni Suhaila Rahim 2021-09-01

The 3rd International Conference on Intelligent and Interactive Computing 2021 (IIC 2021) was held virtually at Universiti Teknikal Malaysia Melaka (UTeM), Melaka, Malaysia, on 9 September 2021. The event was jointly organized by the Department of Interactive Media and Department of Intelligent Computing and Analytics, Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka (UTeM), with the theme 'Empowering the World with Intelligent and Immersive Computing towards Smart Solutions'. This open access e-proceedings contains a compilation of 38 selected papers from the IIC 2021. The technical committees received a great response for submissions from various area including computational intelligence, data analytics, robotics and automation, multimedia and immersive technologies, education 4.0 and others. We hope that this proceeding will serve as a valuable reference for researchers. The event has achieved its aim which is to gather academic scholars and industry practitioners to share valuable knowledge and expertise in related disciplines. Moreover, it is hoped that this conference has opened up opportunities to explore recent advancements and challenges on selected research discipline. As the editors-in-chief, we are grateful and would like to convey our sincerest gratitude to the fellow review members for their effort in reviewing the submitted papers for this proceeding. We are thankful to all the authors for revising their papers according to the proceeding requirements. Also, we would like to express our thoughtful appreciation to the organizer of the IIC 2021.

Machinery Electronics and Control Engineering IV - Lei Jia 2014-12-24

Collection of selected, peer reviewed papers from the 2014 4th International Conference on Machinery Electronics and Control Engineering (ICMECE 2014), November 8-9, 2014, Qingdao, Shandong, China. The 69 papers are grouped as follows: Chapter 1: Advanced Materials Engineering and Processing Technologies; Chapter 2: Applied Mechanics, Mechanical Engineering and Manufacturing Technologies; Chapter 3: Electronic Technologies and Integrated Circuits; Chapter 4: Electrical Engineering and Electric Machines; Chapter 5: Power System and Energy Engineering, its Applications; Chapter 6: Automation and Control Systems

Advances in Welding Technologies for Process Development - Jaykumar Vora 2019-02-22

Within manufacturing, welding is by far the most widely used fabrication method used for production, leading to a rise in research and development activities pertaining to the welding and joining of different, similar, and dissimilar combinations of the metals. This book addresses recent advances in various welding processes across the domain, including arc welding and solid-state welding process, as well as experimental processes. The content is structured to update readers about the working principle, predicaments in existing process, innovations to overcome these problems, and direct industrial and practical applications. Key Features: Describes recent developments in welding technology, engineering, and science Discusses

advanced computational techniques for procedure development Reviews recent trends of implementing DOE and meta-heuristics optimization techniques for setting accurate parameters Addresses related theoretical, practical, and industrial aspects Includes all the aspects of welding, such as arc welding, solid state welding, and weld overlay

Microprocessor Relays and Protection Systems - 1987

Creating Campus Cultures - Samuel D. Museus 2012-03-12

Many colleges and universities have not engaged in the critical self-examination of their campuses necessary for effectively serving racially diverse student populations. This timely edited collection provides insights into how campus cultures can and do shape the experiences and outcomes of their increasingly diverse college student populations. By cultivating values, beliefs, and assumptions that focus on including, validating, and creating equitable outcomes among diverse undergraduate students, an institution can foster their success. While attention to campus climate is critical for gauging the nature of an institution's culture and how students are experiencing the campus environment, changes in climate alone will not lead to holistic and deep rooted institutional transformation. Moving beyond previous explorations of campus racial climates, *Creating Campus Cultures* addresses the considerable institutionally embedded obstacles practitioners face as they attempt to transform entrenched institutional cultures to meet the needs of diverse student bodies. A broad range of chapters include voices of students, new research, practical experiences, and application of frameworks that are conducive to success. This book will help student affairs and higher education administrators navigate this increasingly difficult terrain by providing practical advice on how to foster success among racial minority students and enact long-term, holistic change at any institution.

ICOM2015 Book of Abstracts - Мирослав Драмићанин 2016-03-24

Electrical & Electronics Abstracts - 1997

Choice - 1983

Intelligent Communication Technologies and Virtual Mobile Networks - G. Rajakumar 2022

The book is a collection of high-quality research papers presented at Intelligent Communication Technologies and Virtual Mobile Networks (ICICV), held at Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, India, during February 10-11, 2022. The book shares knowledge and results in theory, methodology and applications of communication technology and mobile networks. The book covers innovative and cutting-edge work of researchers, developers and practitioners from academia and industry working in the area of computer networks, network protocols and wireless networks, data communication technologies and network security.

Handbook of Microstrip Antennas - [James] R[oderick] James 1989

The book reviews developments in the following fields: circular microstrip antennas; microstrip patch antennas; circular polarisation and bandwidth; microstrip dipoles; multilayer and parasitic configurations; wideband flat dipole and short-circuit microstrip patch elements and arrays; numerical analysis; multipoint network approach; transmission-line model; rectangular microstrip antennas; low-cost printed antennas; printed phased-array antennas; circularly polarised antenna arrays; microstrip antenna feeds; substrate technology; computer-aided design of microstrip and triplate circuits; resonant microstrip antenna elements and arrays for aerospace applications; mobile and satellite systems; conical conformal microstrip tracking antenna; and microstrip field diagnostics.

Pervasive Healthcare - Mohammad Shahid Husain 2021-11-15

This book provides in depth knowledge about critical factors involved in the success of pervasive healthcare. The book first presents critical components and importance of pervasive healthcare. The authors then give insight into the pervasive healthcare information systems and key consideration related to remote patient monitoring and safety. The book provides in-depth discussion about the security issues and protocols for pervasive healthcare. This book explores concepts and techniques behind the successive

pervasive healthcare systems by providing in-depth knowledge about patient empowerment, remote patient monitoring, network establishment and protocols for effective pervasive healthcare. The book also provides case studies in the field. It is an ideal resource for researchers, students and healthcare organizations to get insight about the state of the art in pervasive healthcare systems. Provides current research, developments, and applications in pervasive healthcare; Includes technologies such as machine learning,

cryptography, fog computing, and big data in the advancement of e-healthcare; Pertinent for researchers, students, practitioners and healthcare decision makers.

IEE Proceedings - Institution of Electrical Engineers 1987

Indexes IEE proceedings parts A through J