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Research in Education 1969

Modelling and Control of Electric Power Plants C. Maffezzoni 2014-05-23 Modelling and Control of Electric Power Plants focuses on the modeling and simulation of thermal and nuclear units; the methods and technologies of advanced control systems that are applied in power stations; the design and analysis of man-machine systems; and the processes in power generation. Contained in the book are the literature of contributors who have done research on design and operation of electric power plants. The book begins with the development of models of electric power plants and nuclear power plants. Simulations, analysis, and studies are conducted to test the processes and controls that are instituted in the operations of these plants. Another part of the discussion focuses on the control mechanisms that are employed in plants. These computer control systems are deemed essential in the operations of these plants. The role that computers play in plants is noted, which is particularly observed in the operation of equipment, control of conditions, and application of operational processes in these areas. Some of the areas in which modeling is carried out include electric power plants, fossil fuel power plants, boilers, and coal plants. The discussions can be a source of information to those interested in the design, control, and operation of power plants.

Digital Computer Applications to Process Control M. Paul 2016-11-04 Considers the application of modern control engineering on digital computers with a view to improving productivity and product quality, easing supervision of industrial processes and reducing energy consumption and pollution. The topics covered may be divided into two main subject areas: (1) applications of digital control - in the chemical and oil industries, in water turbines, energy and power systems, robotics and manufacturing, cement, metallurgical processes, traffic control, heating and cooling; (2) systems theoretical aspects of digital control - adaptive systems, control aspects, multivariable systems, optimization and reliability, modelling and identification, real-time software and languages, distributed systems and data networks. Contains 84 papers.

Digital Technologies and Applications Saad Motahhir 2022-08-05 This book presents volume 2 of selected research papers presented at the Second International Conference on Digital Technologies and Applications (ICDTA 22), held at Sidi Mohamed Ben Abdellah University, Fez, Morocco, on 28–39 January 2022. Highlighting the latest innovations in digital technologies as: Artifiscial Intelligence, Internet of things, Embedded systems, Network Technology, information processing and their applications in several areas as hybrid vehicles, renewable energy, Mechatronics, Medicine... The respective papers will

encourage and inspire researchers, industry professionals, and policymakers to put these methods into practice.

Mathematics and its Applications in New Computer Systems Andrei Tchernykh 2022-04-25 This book is based on the best papers accepted for presentation during the International Conference on Mathematics and its Applications in New Computer Systems (MANCS-2021), Russia. The book includes research materials on modern mathematical problems, solutions in the field of cryptography, data analysis and modular computing, as well as scientific computing. The scope of numerical methods in scientific computing presents original research, including mathematical models and software implementations, related to the following topics: numerical methods in scientific computing; solving optimization problems; methods for approximating functions, etc. The studies in mathematical solutions to cryptography issues are devoted to secret sharing schemes, public key systems, private key systems, n-degree comparisons, modular arithmetic of simple, addition of points of an elliptic curve, Hasse theorem, homomorphic encryption and learning with error, and modifications of the RSA system. Furthermore, issues in data analysis and modular computing include contributions in the field of mathematical statistics, machine learning methods, deep learning, and neural networks. Finally, the book gives insights into the fundamental problems in mathematics education. The book intends for readership specializing in the field of cryptography, information security, parallel computing, computer technology, and mathematical education.

Energy Research Abstracts 1995

Solar Energy Update 1984

Applied Mechanics Reviews 1974

Nature-Inspired Computing Nazmul H. Siddique 2017-05-19 Nature-Inspired Computing: Physics and Chemistry-Based Algorithms provides a comprehensive introduction to the methodologies and algorithms in nature-inspired computing, with an emphasis on applications to real-life engineering problems. The research interest for Nature-inspired Computing has grown considerably exploring different phenomena observed in nature and basic principles of physics, chemistry, and biology. The discipline has reached a mature stage and the field has been well-established. This endeavour is another attempt at investigation into various computational schemes inspired from nature, which are presented in this book with the development of a suitable framework and industrial applications. Designed for senior undergraduates, postgraduates, research students, and professionals, the book is written at a comprehensible level for students who have some basic knowledge of calculus and differential equations, and some exposure to optimization theory. Due to the focus on search and optimization, the book is also appropriate for electrical, control, civil, industrial and manufacturing engineering, business, and economics students, as well as those in computer and information sciences. With the mathematical and programming references and applications in each chapter, the book is self-contained, and can also serve as a reference for researchers and scientists in the fields of system science, natural computing, and optimization.

Progress in Biomass and Bioenergy Production Shahid Shaukat 2011-07-27 Alternative energy sources have become a hot topic in recent years. The supply of fossil fuel, which provides about 95 percent of total energy demand today, will eventually run out in a few decades. By contrast, biomass and biofuel have the potential to become one of the major global primary energy source along with other alternate energy sources in the years to come. A wide variety of biomass conversion options with different performance characteristics exists. The goal of this book is to provide the readers with current

state of art about biomass and bioenergy production and some other environmental technologies such as Wastewater treatment, Biosorption and Bio-economics. Organized around providing recent methodology, current state of modelling and techniques of parameter estimation in gasification process are presented at length. As such, this volume can be used by undergraduate and graduate students as a reference book and by the researchers and environmental engineers for reviewing the current state of knowledge on biomass and bioenergy production, biosorption and wastewater treatment.

Computer Simulation of Materials at Atomic Level P□ter·De□k 2000 Peter Dea, Thomas Frauenheim, Mark R. Pederson (eds.) Computer Simulation of Materials at Atomic Level Combining theory and applications, this book deals with the modelling of materials properties and phenomena at atomic level. The first part provides an overview of the state-of-the-art of computational solid state physics. Emphasis is given on the understanding of approximations and their consequences regarding the accuracy of the results. This part of the book also deals as a guide to find the best method for a given purpose. The second part offers a potpourri of interesting topical applications, showing what can be achieved by computational modelling. Here the possibilities and the limits of the methods are stressed. A CD-ROM supplies various demo programmes of applications.

Web, Artificial Intelligence and Network Applications Leonard Barolli 2020-03-30 This proceedings book presents the latest research findings, and theoretical and practical perspectives on innovative methods and development techniques related to the emerging areas of Web computing, intelligent systems and Internet computing. The Web has become an important source of information, and techniques and methodologies that extract quality information are of paramount importance for many Web and Internet applications. Data mining and knowledge discovery play a key role in many of today's major Web applications, such as e-commerce and computer security. Moreover, Web services provide a new platform for enabling service-oriented systems. The emergence of large-scale distributed computing paradigms, such as cloud computing and mobile computing systems, has opened many opportunities for collaboration services, which are at the core of any information system. Artificial intelligence (AI) is an area of computer science that builds intelligent systems and algorithms that work and react like humans. AI techniques and computational intelligence are powerful tools for learning, adaptation, reasoning and planning, and they have the potential to become enabling technologies for future intelligent networks. Research in the field of intelligent systems, robotics, neuroscience, artificial intelligence and cognitive sciences is vital for the future development and innovation of Web and Internet applications. Chapter "An Event-Driven Multi Agent System for Scalable Traffic Optimization" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Nuclear Science Abstracts 1975-08

Mathematics for Computer Science Eric Lehman 2017-03-08 This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions.

Applications of Intelligent Control to Engineering Systems Kimon P. Valavanis 2009-06-12 This book reflects the work of top scientists in the field of intelligent control and its applications, prognostics, diagnostics, condition based maintenance and unmanned systems. It includes results, and presents how

theory is applied to solve real problems.

Computational Science and Its Applications - ICCSA 2014 Beniamino Murgante 2014-07-01 The six-volume set LNCS 8579-8584 constitutes the refereed proceedings of the 14th International Conference on Computational Science and Its Applications, ICCSA 2014, held in Guimarães, Portugal, in June/July 2014. The 347 revised papers presented in 30 workshops and a special track were carefully reviewed and selected from 1167. The 289 papers presented in the workshops cover various areas in computational science ranging from computational science technologies to specific areas of computational science such as computational geometry and security.

Proceedings of the 6th International Conference on Electrical, Control and Computer Engineering Zainah Zain 2022 This book presents the proceedings of the 6th International Conference on Electrical, Control and Computer Engineering (InECCE 2021), held in Kuantan, Pahang, Malaysia, on 23 August 2021. The topics covered are sustainable energy, power electronics and drives and power engineering including distributed/renewable generation, power system optimization, artificial/computational intelligence, smart grid, power system protection and machine learning energy management and conservation. The book showcases some of the latest technologies and applications developed to solve local energy and power problems in order to ensure continuity, reliability and security of electricity for future generations. It also links topics covered the sustainable developed goals (SDGs) areas outlined by the United Nation for global sustainability. The book will appeal to professionals, scientists and researchers with experience in industry.

Monthly Catalogue, United States Public Documents 1987-07

Electromagnetic Fields in Electrical Engineering Shunnian Ding 1989

Scientific and Technical Aerospace Reports 1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Encyclopedia of Information Science and Technology, Third Edition Khosrow-Pour, Mehdi 2014-07-31 "This 10-volume compilation of authoritative, research-based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities, prospective solutions, and future directions in the field of information science and technology"--Provided by publisher.

The Sixteenth Conference of Electrical & Electronics Engineers in Israel 1989

Proceedings of the International Conference on Data Engineering 2015 (DaEng-2015) Jemal H. Abawajy 2019-08-09 These proceedings gather outstanding research papers presented at the Second International Conference on Data Engineering 2015 (DaEng-2015) and offer a consolidated overview of the latest developments in databases, information retrieval, data mining and knowledge management. The conference brought together researchers and practitioners from academia and industry to address key challenges in these fields, discuss advanced data engineering concepts and form new collaborations. The topics covered include but are not limited to: • Data engineering • Big data • Data and knowledge visualization • Data management • Data mining and warehousing • Data privacy & security • Database theory • Heterogeneous databases • Knowledge discovery in databases • Mobile, grid and cloud computing • Knowledge management • Parallel and distributed data • Temporal data • Web data,

services and information engineering • Decision support systems • E-Business engineering and management • E-commerce and e-learning • Geographical information systems • Information management • Information quality and strategy • Information retrieval, integration and visualization • Information security • Information systems and technologies

Canadian Electrical Engineering Journal 1983

Advances of DNA Computing in Cryptography Suyel Namasudra 2018-09-03 This book discusses the current technologies of cryptography using DNA computing. Various chapters of the book will discuss the basic concepts of cryptography, steganography, basic concepts of DNA and DNA computing, approaches of DNA computing in cryptography, security attacks, practical implementaion of DNA computing, applications of DNA computing in the cloud computing environment, applications of DNA computing for big data, etc. It provides a judicious mix of concepts, solved examples and real life case studies.

Resources in Education 1969

Advances in Parallel Computing Technologies and Applications D.J. Hemanth 2021-11-25 Recent developments in parallel computing mean that the use of machine learning techniques and intelligence to handle the huge volume of available data have brought the faster solutions offered by advanced technologies to various fields of application. This book presents the proceedings of the Virtual International Conference on Advances in Parallel Computing Technologies and Applications (ICAPTA 2021), hosted in Justice Basheer Ahmed Sayeed College for women (formerly "S.I.E.T Women's College"), Chennai, India, and held online as a virtual event on 15 and 16 April 2021. The aim of the conference was to provide a forum for sharing knowledge in various aspects of parallel computing in communications systems and networking, including cloud and virtualization solutions, management technologies, and vertical application areas. It also provided a platform for scientists, researchers, practitioners and academicians to present and discuss the most recent innovations and trends, as well as the concerns and practical challenges encountered in this field. Included here are 52 full length papers, selected from over 100 submissions based on the reviews and comments of subject experts. Topics covered include parallel computing in communication, machine learning intelligence for parallel computing and parallel computing for software services in theoretical and practical aspects. Providing an overview of the latest developments in the field, the book will be of interest to all those whose work involves the use of parallel computing technologies.

The Electrical Engineering Handbook,Second Edition Richard C. Dorf 1997-09-26 In 1993, the first edition of The Electrical Engineering Handbook set a new standard for breadth and depth of coverage in an engineering reference work. Now, this classic has been substantially revised and updated to include the latest information on all the important topics in electrical engineering today. Every electrical engineer should have an opportunity to expand his expertise with this definitive guide. In a single volume, this handbook provides a complete reference to answer the questions encountered by practicing engineers in industry, government, or academia. This well-organized book is divided into 12 major sections that encompass the entire field of electrical engineering, including circuits, signal processing, electronics, electromagnetics, electrical effects and devices, and energy, and the emerging trends in the fields of communications, digital devices, computer engineering, systems, and biomedical engineering. A compendium of physical, chemical, material, and mathematical data completes this comprehensive resource. Every major topic is thoroughly covered and every important concept is defined, described, and illustrated. Conceptually challenging but carefully explained articles are equally valuable to the practicing engineer, researchers, and students. A distinguished advisory board and contributors including many of

the leading authors, professors, and researchers in the field today assist noted author and professor Richard Dorf in offering complete coverage of this rapidly expanding field. No other single volume available today offers this combination of broad coverage and depth of exploration of the topics. The Electrical Engineering Handbook will be an invaluable resource for electrical engineers for years to come.

Social Networking and Computational Intelligence Rajesh Kumar Shukla 2020-03-21 This book presents a selection of revised and extended versions of the best papers from the First International Conference on Social Networking and Computational Intelligence (SCI-2018), held in Bhopal, India, from October 5 to 6, 2018. It discusses recent advances in scientific developments and applications in these areas.

International Conference on Control and Its Applications Institution of Electrical Engineers. Computing & Control Division 1981

Scientific Computing in Electrical Engineering Angelo Marcello Anile 2007-01-10 This book is a collection of papers presented at the last Scientific Computing in Electrical Engineering (SCEE) Conference, held in Sicily, in 2004. The series of SCEE conferences aims at addressing mathematical problems which have a relevancy to industry. The areas covered at SCEE-2004 were: Electromagnetism, Circuit Simulation, Coupled Problems and General mathematical and computational methods.

Electrical Power Systems and Computers Xiaofeng Wan 2011-06-21 This volume includes extended and revised versions of a set of selected papers from the International Conference on Electric and Electronics (EEIC 2011) , held on June 20-22 , 2011, which is jointly organized by Nanchang University, Springer, and IEEE IAS Nanchang Chapter. The objective of EEIC 2011 Volume 3 is to provide a major interdisciplinary forum for the presentation of new approaches from Electrical Power Systems and Computers, to foster integration of the latest developments in scientific research. 133 related topic papers were selected into this volume. All the papers were reviewed by 2 program committee members and selected by the volume editor Prof. Xiaofeng Wan. We hope every participant can have a good opportunity to exchange their research ideas and results and to discuss the state of the art in the areas of the Electrical Power Systems and Computers.

Neuroergonomics Chang S. Nam 2020-02-27 This book sums up key research findings, and theoretical and technological advances having a direct bearing on neuroergonomics. Neuroergonomics is an emerging area whose Neuroergonomics is an emerging area that is collectively defined as the study of human brain function and behaviour in relation to behavioural performance in natural environments and everyday settings. It helps readers to understand neural mechanisms of human cognition in the context of human interaction with complex systems, as well as understanding the change of perception, decision-making and training in humans. The authors give new insights into augmenting human performance, reflecting upon the opportunities provided through neuroergonomics research and development. Computer systems acting on data from behavioural-output, physiological, and neurological sensing technologies are used to determine the user's cognitive state and adapt the systems to change, support, and monitor human cognition. Various domains and case studies delve into the field of neuroergonomics in detail. These include, but are not limited to: an evaluation of technologies in health, workplace, and education settings, to show the different impacts of neuroergonomics in everyday lives; assessment of real-time cognitive measures; dynamic casual interactions between inhibition and updating functions, through analysis of behavioral, neurophysiological and effective connectivity metrics; and applications in human performance modelling and assessment of mental workload, showing the reader how to train and improve working memory capacity. Neuroergonomics: Principles and Practice provides academic practitioners and graduate students with a single go-to handbook that will be of significant assistance in

research associated with human factors and ergonomics, human-computer interaction, human-systems engineering and cognitive neuroscience.

Information Science and Applications Kuinam J. Kim 2015-02-17 This proceedings volume provides a snapshot of the latest issues encountered in technical convergence and convergences of security technology. It explores how information science is core to most current research, industrial and commercial activities and consists of contributions covering topics including Ubiquitous Computing, Networks and Information Systems, Multimedia and Visualization, Middleware and Operating Systems, Security and Privacy, Data Mining and Artificial Intelligence, Software Engineering, and Web Technology. The proceedings introduce the most recent information technology and ideas, applications and problems related to technology convergence, illustrated through case studies, and reviews converging existing security techniques. Through this volume, readers will gain an understanding of the current state-of-the-art in information strategies and technologies of convergence security. The intended readership are researchers in academia, industry, and other research institutes focusing on information science and technology.

Humanizing work and work Environment (HWWE 2016) Dr Lakhwinder Pal Singh 2018-02-04 Proceedings of 14th International Conference on Humanizing work and work Environment

Proceedings 1995

11th Mediterranean Conference on Medical and Biological Engineering and Computing 2007 Tomaz Jarm 2007-10-24 Biomedical engineering brings together bright minds from diverse disciplines, ranging from engineering, physics, and computer science to biology and medicine. This book contains the proceedings of the 11th Mediterranean Conference on Medical and Biological Engineering and Computing, MEDICON 2007, held in Ljubljana, Slovenia, June 2007. It features relevant, up-to-date research in the area.

Monthly Catalog of United States Government Publications 1987

Securing the Internet of Things: Concepts, Methodologies, Tools, and Applications
Management Association, Information Resources 2019-09-06 The ubiquity of modern technologies has allowed for increased connectivity between people and devices across the globe. This connected infrastructure of networks creates numerous opportunities for applications and uses. As the applications of the internet of things continue to progress so do the security concerns for this technology. The study of threat prevention in the internet of things is necessary as security breaches in this field can ruin industries and lives. Securing the Internet of Things: Concepts, Methodologies, Tools, and Applications is a vital reference source that examines recent developments and emerging trends in security and privacy for the internet of things through new models, practical solutions, and technological advancements related to security. Highlighting a range of topics such as cloud security, threat detection, and open source software, this multi-volume book is ideally designed for engineers, IT consultants, ICT procurement managers, network system integrators, infrastructure service providers, researchers, academics, and professionals interested in current research on security practices pertaining to the internet of things.

The Western Electric Engineer 1979