Electrical And Electronics Engineering 2008

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The Electrochemical Society

Advances in Electrical and Electronics Engineering - IAENG Special Edition of the World Congress on Engineering and Computer Science, WCECS, 2008WCECS 2008IEEE Computer Society Press

Scientific Computing in Electrical Engineering SCEE 2008 MAC Prague consulting

This book describes in a detailed fashion the application of hybrid intelligent systems using soft computing techniques for intelligent control and mobile robotics. Soft Computing (SC) consists of several intelligent computing paradigms, including fuzzy logic, neural networks, and bio-inspired optimization algorithms, which can be used to produce powerful hybrid intelligent systems. The prudent combination of SC techniques can produce powerful hybrid intelligent systems that are capable of solving real-world problems. This is illustrated in this book with a wide range of applications, with particular emphasis in intelligent control and mobile robotics. The book is organized in five main parts, which contain a group of papers around a similar subject. The first part consists of papers with the main theme of theory and algorithms, which are basically papers that propose new models and concepts, which can be the basis for achieving intelligent control and mobile robotics. The second part contains papers with the main theme

of intelligent control, which are basically papers using bio-inspired techniques, like evolutionary algorithms and neural networks, for achieving intelligent control of non-linear plants. The third part contains papers with the theme of optimization of fuzzy controllers, which basically consider the application of bio-inspired optimization methods to automate the de-sign process of optimal type-1 and type-2 fuzzy controllers. The fourth part contains papers that deal with the application of SC techniques in times series prediction and intelligent agents. The fifth part contains papers with the theme of computer vision and robotics, which are papers considering soft computing methods for applications related to vision and robotics.

Biomedical Circuits and Systems

Springer

This book on power quality written by experts from industries and academics from various counties will be of great benefit to professionals, engineers and researchers. This book covers various aspects of power quality monitoring, analysis and power quality enhancement in transmission and distribution systems. Some of the key features of books are as follows: Wavelet and PCA to Power Quality Disturbance Classification applying a RBF Network; Power Quality Monitoring in a System with Distributed and Renewable Energy

Sources; Signal Processing Application of Power Quality Monitoring; Pre-processing Tools and Intelligent Techniques for Power Quality Analysis; Single-Point Methods for Location of Distortion, Unbalance, Voltage Fluctuation and Dips Sources in a Power System; S-transform Based Novel Indices for Power Quality Disturbances; Load Balancing in a Three-Phase Network by Reactive Power Compensation; Compensation of Reactive Power and Sag Voltage using Superconducting Magnetic Energy Storage; Optimal Location and Control of Flexible Three Phase Shunt FACTS to Enhance Power Quality in Unbalanced Electrical Network; Performance of Modification of a Three Phase Dynamic Voltage Restorer (DVR) for Voltage Quality Improvement in Distribution System; Voltage Sag Mitigation by Network Reconfiguration; Intelligent Techniques for Power Quality Enhancement in Distribution Systems.

Advances in Electrical and Electronics Engineering - IAENG Special Edition of the World Congress on Engineering and Computer Science 2008 IGI Global Spanning static fields to terahertz waves, this volume explores the range of consequences electromagnetic fields have on the human body. Topics discussed include essential interactions and field coupling phenomena; electric field interactions in cells, focusing on ultrashort, pulsed high-intensity fields; dosimetry or

coupling of ELF fields into biological systems; and the historical developments and recent trends in numerical dosimetry. It also discusses mobile communication devices and the dosimetry of RF radiation into the human body, exposure and dosimetry associated with MRI and spectroscopy, and available data on the interaction of terahertz radiation with biological tissues, cells, organelles, and molecules.

ULSI Process Integration 6 Lulu.com Developing a system that can cope with variations of system or control parameters, measurement uncertainty, and complex, multi-objective optimization criteria is a frequent problem in engineering systems design. The need for a priori knowledge and the inability to learn from past experience make the design of robust, adaptive, and stable systems a difficult task. Innovation in Power, Control, and Optimization: Emerging Energy Technologies unites research on the development of techniques and methodologies to improve the performance of power systems, energy planning and environments, controllers and robotics, operation research, and modern artificial computational intelligent techniques. Containing research on power engineering, control systems, and methods of optimization, this book is written for professionals who want to improve their understanding of strategic developments in the area of power, control, and optimization.

Advances in Electrical and Electronics Engineering - IAENG Special Edition of the World Congress on Engineering and Computer Science, WCECS, 2008 CRC Press

Advances in Electrical Engineering and

Computational Science contains sixty-one revised and extended research articles written by prominent researchers participating in the conference. Topics covered include Control Engineering, Network Management, Wireless Networks, Biotechnology, Signal Processing, Computational Intelligence, Computational Statistics, Internet Computing, High Performance Computing, and industrial applications. Advances in Electrical Engineering and Computational Science will offer the state of art of tremendous advances in electrical engineering and computational science and also serve as an excellent reference work for researchers and graduate students working with/on electrical engineering and computational science.

WCECS 2008 IEEE Computer Society Press

Scienti?c Computing in Electrical Engineering (SCEE) is an international c-ference series, which started as a national German meeting held in Darmstadt (1997) and Berlin (1998), both under the auspices of the Deutscher Mathematiker Verein. The ?rst truly international SCEE conference was organized in 2000 in Warnemunde, Germany, by the University of Rostock. In 2002, the 4th SCEE c- ference took place in Eindhoven, The Netherlands, jointly organized by the Ei- hoven University of Technologyand Philips Research LaboratoriesEindhoven.The 5th SCEE conference was held in 2004 in Capo D'Orlando, Italy, jointly organized by Universita di Catania and Consorzio Catania Ricerche. The venue of the 6th SCEE conference was Sinaia, Romania, in 2006, organized by the Politehnica U-versity of Bucharest. The 7th International

Conference on Scienti?c Computing in Electrical En- neering (SCEE 2008) was held in Espoo, Finland, from September 28 to October 3, 2008. It was organized by the Helsinki University of Technology, Faculty of Electronics, Communications and Automation; Department of Radio Science and Engineering; Circuit Theory Group. (Details on the SCEE 2008 conference are at http://radio.tkk.fi/en/conferences/scee200 8/).

Advances in Electrical Engineering and Computational Science IGI Global
International Academic Conference in Prague 2017

Occupational outlook handbook, 2010-11 (Paperback) Newnes
Provides systematic coverage of the theory, physics, functional designs, and engineering applications of advanced electromagnetic surfaces.

Innovation in Power, Control, and Optimization: Emerging Energy Technologies Springer Science & Business Media
Monolithic Microwave Integrated Circuit (MMIC) is an electronic device that is widely used in all high frequency wireless systems. In developing MMIC as a product, understanding analysis and design techniques, modeling, measurement methodology, and current trends are essential. Advances in Monolithic Microwave Integrated Circuits for Wireless Systems: Modeling and Design Technologies is a central source of knowledge on MMIC development, containing research on theory, design, and practical approaches to integrated circuit devices. This book is of interest to researchers in industry and academia working in the areas of circuit design, integrated circuits, and

RF and microwave, as well as anyone with an interest in monolithic wireless device development.

Advances in Electrical and Electronics Engineering - IAENG Special Edition of the World Congress on Engineering and Computer Science 2008 22.10-24.10.2008 Springer

Quantum computing is radically different from the conventional approach of transforming bit-strings from one set of zeros and ones to another. With quantum computing, everything changes. The physics used to understand bits of information and the devices that manipulate them are vastly different. Quantum engineering is a revolutionary approach to quantum technology. Technology Road Mapping for Quantum Computing and Engineering explores all the aspects of quantum computing concepts, engineering, technologies, operations, and applications from the basics to future advancements. Covering topics such as machine learning, quantum software technology, and technology road mapping, this book is an excellent resource for data scientists, engineers, students and professors of higher education, computer scientists, researchers, and academicians.

The 2nd International Symposium on Electrical and Electronics Engineering Cambridge University Press

This is a PhD dissertation. The work presented in this monograph was carried out at the Department of Power Electronics and Electrical Machines, Faculty of Electrical and Control Engineering at the Gdansk University of Technology. Developed

during the research models of brushless synchronous generator ware verified using FEM based simulations and measurements conducted on the prototype generator. The main focus of the research was toward a brushless synchronous generator in variable frequency modern more electric aircraft power systems. The generator prototype was developed and its performance was analyzed with the focus on the higher rotational velocity of the prototype components and the generated power quality. For this FEM based and circuit models of the generator ware developed and the machine performance was measured and simulated. The proposed circuit model allowed for the inclusion of nonsinusoidal spatial distribution of the magnetic flux along the air gap which in turn allowed for simulation-based power quality analysis.

Soft Computing for Intelligent Control and Mobile Robotics IGI Global
A concise and clear guide to the concepts and applications of wireless sensor networks, ideal for students, practitioners and researchers.

ECTI-CON 2008 Sciendo
Describes 250 occupations which cover approximately 107 million jobs.

Handbook of Research on Machine Learning Innovations and Trends John Wiley & Sons
Unifying Electrical Engineering and Electronics Engineering is based on the Proceedings of the 2012 International Conference on Electrical and Electronics Engineering (ICEE 2012). This book collects the peer reviewed papers presented at the conference. The aim of the conference is to unify the two areas of Electrical and Electronics Engineering. The book examines trends and techniques in the field as well as theories and applications. The editors have chosen to include the following topics; biotechnology, power engineering, superconductivity circuits, antennas technology, system architectures and telecommunication.

Evolutionary Design of Intelligent Systems in Modeling, Simulation and Control BoD – Books on Demand

Emerging Trends in Image Processing, Computer Vision, and Pattern Recognition discusses the latest in trends in imaging science which at its core consists of three intertwined computer science fields, namely: Image Processing, Computer Vision, and Pattern Recognition. There is significant renewed interest in each of these three fields fueled by Big Data and Data Analytic initiatives including but not limited to; applications as diverse as computational biology, biometrics, biomedical imaging, robotics, security, and knowledge engineering. These three core topics discussed here provide a solid introduction to image processing along with low-level processing techniques, computer vision fundamentals along with examples of applied applications and pattern recognition algorithms and methodologies that will be of value to the image processing and computer vision research communities. Drawing upon the knowledge of recognized experts with years of practical experience and discussing new and novel applications Editors' Leonidas Deligiannidis and Hamid Arabnia cover; Many perspectives of image processing spanning from fundamental mathematical theory and sampling, to image representation and reconstruction, filtering in spatial and frequency domain, geometrical transformations, and image restoration and segmentation Key

application techniques in computer vision some of which are camera networks and vision, image feature extraction, face and gesture recognition and biometric authentication Pattern recognition algorithms including but not limited to; Supervised and unsupervised classification algorithms, Ensemble learning algorithms, and parsing algorithms. How to use image processing and visualization to analyze big data. Discusses novel applications that can benefit from image processing, computer vision and pattern recognition such as computational biology, biometrics, biomedical imaging, robotics, security, and knowledge engineering. Covers key application techniques in computer vision from fundamentals to mid to high level

processing some of which are camera networks and vision, image feature extraction, face and gesture recognition and biometric authentication. Presents a number of pattern recognition algorithms and methodologies including but not limited to; supervised and unsupervised classification algorithms, Ensemble learning algorithms, and parsing algorithms. Explains how to use image processing and visualization to analyze big data.

Recent Progress in Some Aircraft Technologies Springer Nature
This book is a collection of 65 selected papers presented at the 7th International Conference on Scientific Computing in Electrical Engineering (SCEE), held in Espoo, Finland, in 2008. The aim of the

SCEE 2008 conference was to bring together scientists from academia and industry, e.g. mathematicians, electrical engineers, computer scientists, and physicists, with the goal of intensive discussions on industrially relevant mathematical problems, with an emphasis on modeling and numerical simulation of electronic circuits and devices, electromagnetic fields, and coupled problems. This extensive reference work is divided into five parts: 1. Computational electromagnetics, 2. Circuit simulation, 3. Coupled problems, 4. Mathematical and computational methods, and 5. Model-order reduction. Each part starts with an general introduction followed by the actual papers.

Bout de Zan pugliste IEEE Computer Society Press

The book describes the recent progress in some engine technologies and active flow control and morphing technologies and in topics related to aeroacoustics and aircraft controllers. Both the researchers and students should find the material useful in their work.

Theory and Novel Applications of Machine Learning Springer Science & Business Media
"This book focuses on the technical planning of power systems, taking into account technological evolutions in equipment as well as the economic, financial, and societal factors that drive supply and demand and have implications for technical planning at the micro level"--Provided by publisher.

Variable Speed AC Drives with Inverter Output Filters Springer Science & Business Media
"IEEE Computer Society Order Number P3555" -- t.p. verso.