Electrical And Electronics Engineering 2008

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Electromagnetic Fields in Biological Systems Springer Science & Business Media

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.

Power Quality IGI Global

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.

ULSI Process Integration 6 Springer Science & Business Media

Continuous improvements in technological applications have allowed more opportunities to develop automated systems. This not only leads to higher success in smart data analysis, but it increases the overall probability of technological progression. The Handbook of Research on Machine Learning Innovations and Trends is a key resource on the latest advances and research regarding the vast range of advanced systems and applications involved in machine intelligence. Highlighting multidisciplinary studies on decision theory, intelligent search, and multi-agent systems, this publication is an ideal reference source for professionals and researchers working in the field of machine learning and its applications.

WirelessHART BoD – Books on Demand

Even since computers were invented, many researchers have been trying to understand how human beings learn and many interesting paradigms and approaches towards emulating human learning abilities have been proposed. The ability of learning is one of the central features of human intelligence, which makes it an important ingredient in both traditional Artificial Intelligence (AI) and emerging Cognitive Science. Machine Learning (ML) draws upon ideas from a diverse set of disciplines, including AI, Probability and Statistics, Computational Complexity, Information Theory, Psychology and Neurobiology, Control Theory and Philosophy. ML involves broad topics including Fuzzy Logic, Neural Networks (NNs), Evolutionary Algorithms (EAs), Probability and Statistics, Decision Trees, etc. Real-world applications of ML are widespread such as Pattern Recognition, Data Mining, Gaming, Bio-science, Telecommunications, Control and Robotics applications. This books reports the latest developments and futuristic trends in ML.

Proceedings of AC 2017 CRC 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.

INNOVATIONS IN ELECTRICAL AND ELECTRONIC ENGINEERING Morgan Kaufmann

We describe in this book, new methods for evolutionary design of intelligent s- tems using soft computing and their applications in modeling, simulation and c- trol. Soft Computing (SC) consists of several intelligent computing paradigms, including fuzzy logic, neural networks, and evolutionary algorithms, which can be used to produce powerful hybrid intelligent systems. The book is organized in four main parts, which contain a group of papers around a similar subject. The first part consists of papers with the main theme of evolutionary design of fuzzy systems in intelligent control, which consists of papers that propose new methods for designing and optimizing intelligent controllers for different applications. The second part c- tains papers with the main theme of evolutionary design of intelligent systems for pattern recognition applications, which are basically papers using evolutionary al- rithms for optimizing modular neural networks with fuzzy systems for response - tegration, for achieving pattern recognition in different applications. The third part contains papers with the themes of models for learning and social simulation, which are papers that apply intelligent systems to the problems of designing learning - jects and social agents. The fourth part contains papers that deal with intelligent s- tems in robotics applications and hardware implementations. In the part of Intelligent Control there are 5 papers that describe different c- tributions on evolutionary optimization of fuzzy systems in intelligent control. The first paper, by Ricardo Martinez-Marroquin et al.

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

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.

Innovation in Power, Control, and Optimization: Emerging Energy Technologies John Wiley & Sons

The advance of variable speed drives systems (VSDs) engineering highlights the need of specific technical guidance provision by electrical machines and drives manufacturers, so that such applications can be properly designed to present advantages in terms of both energy efficiency and expenditure. This book presents problems and solutions related to inverter-fed electrical motors. Practically orientated, the book describes the reasons, theory and analysis of those problems. Various solutions for individual problems are presented together with the complete design process, modelling and simulation examples with MATLAB/Simulink on the companion website. A key focus of Variable Speed AC Drives with Inverter Output Filters is to examine the state variables estimation and motor control structures which have to be modified according to the used solution (filter). In most control systems the structure and parameters are taken into account to make it possible for precise control of the motor. This methodology is able to include modifications and extensions depending on specific control and estimation structures. Highly accessible, this is an invaluable resource for practising R&D engineers in drive companies, power electronics & control engineers and manufacturers of electrical drives. Senior undergraduate and postgraduate students in electronics and control engineering will also find it of value.

Bout de Zan pugiliste IGI Global

An important resource for employers, career counselors, and job seekers, this handbook contains current information on today's occupations and future hiring trends, and features detailed descriptions of more than 250 occupations. Find out what occupations entail their working conditions, the training and education needed for these positions, their earnings, and their advancement potential. Also includes summary information on 116 additional occupations.

2008 IEEE Region 8 International Conference on Computational Technologies in Electrical and Electronics Engineering Pearson Education India

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.

Technology Road Mapping for Quantum Computing and Engineering IGI Global

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

ECTI-CON 2008 IEEE Computer Society Press

The book features selected high-quality papers presented at International Conference on Electrical and Electronics Engineering (ICEEE 2022), jointly organized by University of Malaya and Bharath Institute of Higher Education and Research India during January 8-9, 2022, at NCR

New Delhi, India. The book focuses on current development in the fields of electrical and electronics engineering. The book covers electrical engineering topics--power and energy including renewable energy, power electronics and applications, control, and automation and instrumentation--and covers the areas of robotics, artificial intelligence and IoT, electronics devices, circuits and systems, wireless and optical communication, RF and microwaves, VLSI, and signal processing. The book is beneficial for readers from both academia and industry.

Emerging Trends in Image Processing, Computer Vision and Pattern Recognition Sciendo
This volume covers the essential areas of electrical engineering, offering tips, tools of the trade, design and applications information along with summarized theory, equations and formulas. Electrical engineering is a field of engineering that generallydeals with the study and application of electricity, electronics and electromagnetism.

Biomedical Circuits and Systems Cambridge University Press
This book presents a guideline for EWMA filter design for industrial wireless networked control system, both theoretically and practically. The filter's key advantages are simple, effective, low computational overhead. This book also provides a guideline for practical implementation of EWMA filter for improving networked control performance of various process plants. It further discusses not only the advantages of the filter, but also the limitations and how to avoid them when implementing the filter from practical point of view.

Recent Progress in Some Aircraft Technologies CRC Press
Modern technology has infiltrated many facets of society, including educational environments. Through the use of virtual learning, educational systems can become more efficient at teaching the student population and break down cost and distance barriers to reach populations that traditionally could not afford a good education. Virtual Reality in Education:

Breakthroughs in Research and Practice is an essential reference source on the uses of virtual reality in K-12 and higher education classrooms with a focus on pedagogical and instructional outcomes and strategies. Highlighting a range of pertinent topics such as immersive virtual learning environments, virtual laboratories, and distance education, this publication is an ideal reference source for pre-service and in-service teachers, school administrators, principles, higher education faculty, K-12 instructors, policymakers, and researchers interested in virtual reality incorporation in the classroom.

Occupational Outlook Handbook Springer
A concise and clear guide to the concepts and applications of wireless sensor networks, ideal for students, practitioners and researchers.

Virtual Reality in Education: Breakthroughs in Research and Practice MAC Prague consulting
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/scee2008/).

Variable Speed AC Drives with Inverter Output Filters BoD – Books on Demand
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.

WCECS 2008 Cambridge University Press
"IEEE Computer Society Order Number P3555" -- t.p. verso.

Occupational outlook handbook, 2010-11 (Paperback) The Electrochemical Society
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.