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KEY=FACTOR - KEIRA ESTRADA

ADVANCES IN ELECTRICAL CONTROL AND SIGNAL SYSTEMS

SELECT PROCEEDINGS OF AECSS 2019

Springer Nature This book presents select proceedings of the International Conference on Advances in Electrical Control and Signal Systems (AECSS) 2019. The focus is on the current developments in control and signal systems in electrical engineering, and covers various topics such as power systems, energy systems, micro grid, smart grid, networks, fuzzy systems and their control. The book also discusses various properties and performance of signal systems and their applications in different fields. The contents of this book can be useful for students, researchers as well as professionals working in power and energy systems, and other related fields.

ADVANCES IN AUTOMATION, SIGNAL PROCESSING, INSTRUMENTATION, AND CONTROL

SELECT PROCEEDINGS OF I-CASIC 2020

Springer Nature This book presents the select proceedings of the International Conference on Automation, Signal Processing, Instrumentation and Control (i-CASIC) 2020. The book mainly focuses on emerging technologies in electrical systems, IoT-based

instrumentation, advanced industrial automation, and advanced image and signal processing. It also includes studies on the analysis, design and implementation of instrumentation systems, and high-accuracy and energy-efficient controllers. The contents of this book will be useful for beginners, researchers as well as professionals interested in instrumentation and control, and other allied fields.

INTELLIGENT RENEWABLE ENERGY SYSTEMS

INTEGRATING ARTIFICIAL INTELLIGENCE TECHNIQUES AND OPTIMIZATION ALGORITHMS

John Wiley & Sons INTELLIGENT RENEWABLE ENERGY SYSTEMS This collection of papers on artificial intelligence and other methods for improving renewable energy systems, written by industry experts, is a reflection of the state of the art, a must-have for engineers, maintenance personnel, students, and anyone else wanting to stay abreast with current energy systems concepts and technology. Renewable energy is one of the most important subjects being studied, researched, and advanced in today's world. From a macro level, like the stabilization of the entire world's economy, to the micro level, like how you are going to heat or cool your home tonight, energy, specifically renewable energy, is on the forefront of the discussion. This book illustrates modelling, simulation, design and control of renewable energy systems employed with recent artificial intelligence (AI) and optimization techniques for performance enhancement. Current renewable energy sources have less power conversion efficiency because of its intermittent and fluctuating behavior. Therefore, in this regard, the recent AI and optimization techniques are able to deal with data ambiguity, noise, imprecision, and nonlinear behavior of renewable energy sources more efficiently compared to classical soft computing techniques. This book provides an extensive analysis of recent state of the art AI and optimization techniques applied to green energy systems. Subsequently, researchers, industry persons, undergraduate and graduate students involved in green energy will greatly benefit from this comprehensive volume, a must-have for any library. Audience Engineers, scientists, managers, researchers, students, and other professionals working in the field of renewable energy.

RECENT ADVANCES IN POWER ELECTRONICS AND DRIVES

SELECT PROCEEDINGS OF EPREC 2020

Springer Nature This book presents select proceedings of the Electric Power and Renewable Energy Conference 2020 (EPREC-2020). It provides rigorous discussions, case studies, and recent developments in the emerging areas of power electronics, especially, power inverter and converter, electrical drives, regulated power supplies, operation of FACTS & HVDC, etc. The readers would be benefited in enhancing their knowledge and skills in these domain areas. The book will be a valuable reference for beginners, researchers, and

professionals interested in advancements in power electronics and drives.

DC–DC CONVERTERS FOR FUTURE RENEWABLE ENERGY SYSTEMS

Springer Nature The book presents the analysis and control of numerous DC-DC converters widely used in several applications such as standalone, grid integration, and motor drives-based renewable energy systems. The book provides extensive simulation and practical analysis of recent and advanced DC-DC power converter topologies. This self-contained book contributes to DC-DC converters design, control techniques, and industrial as well as domestic applications of renewable energy systems. This volume will be useful for undergraduate/postgraduate students, energy planners, designers, system analysis, and system governors.

SIGNAL PROCESSING AND ANALYSIS OF ELECTRICAL CIRCUIT

MDPI This Special Issue with 35 published articles shows the significance of the topic “Signal Processing and Analysis of Electrical Circuit”. This topic has been gaining increasing attention in recent times. The presented articles can be categorized into four different areas: signal processing and analysis methods of electrical circuits; electrical measurement technology; applications of signal processing of electrical equipment; fault diagnosis of electrical circuits. It is a fact that the development of electrical systems, signal processing methods, and circuits has been accelerating. Electronics applications related to electrical circuits and signal processing methods have gained noticeable attention in recent times. The methods of signal processing and electrical circuits are widely used by engineers and scientists all over the world. The constituent papers represent a significant contribution to electronics and present applications that can be used in industry. Further improvements to the presented approaches are required for realizing their full potential.

ARTIFICIAL INTELLIGENCE AND INTERNET OF THINGS FOR RENEWABLE ENERGY SYSTEMS

Walter de Gruyter GmbH & Co KG This book explains the application of Artificial Intelligence and Internet of Things on green energy systems. The design of smart grids and intelligent networks enhances energy efficiency, while the collection of environmental data through sensors and their prediction through machine learning models improve the reliability of green energy systems.

APPLICATIONS OF POWER ELECTRONICS

VOLUME 2

MDPI Power electronics technology is still an emerging technology, and it has found its way into many applications, from renewable energy generation (i.e., wind power and solar power) to electrical vehicles (EVs), biomedical devices, and small appliances, such as laptop chargers. In the near future, electrical energy will be provided and handled by power electronics and consumed through power electronics; this not only will intensify the role of power electronics technology in power conversion processes, but also implies that power systems are undergoing a paradigm shift, from centralized distribution to distributed generation. Today, more than 1000 GW of renewable energy generation sources (photovoltaic (PV) and wind) have been installed, all of which are handled by power electronics technology. The main aim of this book is to highlight and address recent breakthroughs in the range of emerging applications in power electronics and in harmonic and electromagnetic interference (EMI) issues at device and system levels as discussed in robust and reliable power electronics technologies, including fault prognosis and diagnosis technique stability of grid-connected converters and smart control of power electronics in devices, microgrids, and at system levels.

ADVANCES IN INTELLIGENT COMPUTING AND COMMUNICATION

PROCEEDINGS OF ICAC 2019

Springer Nature This book features high-quality research papers presented at the 2nd International Conference on Intelligent Computing and Advances in Communication (ICAC 2019), held at Siksha 'O' Anusandhan Deemed to be University, Bhubaneswar, Odisha, India, in November 2019. Covering a wide variety of topics, including management of clean and smart energy systems and environmental challenges, it is a valuable resource for researchers and practicing engineers working in various fields of renewable energy generation, and clean and smart energy management.

ADVANCES IN GREENER ENERGY TECHNOLOGIES

Springer Nature This book presents ongoing research activities of currently available renewable energy technologies and the approaches towards clean technology for enabling a socio-economic model for the present and future generations to live in a clean and healthy environment. The book provides chapter wise implementation of research works in the area of green energy technologies with proper methods used with solution strategies and energy efficiency approaches by combining theory and practical applications. Readers are introduced to practical problems of green computation and hybrid resources optimization with solution based approaches from the current research outcomes. The book will be of use to researchers, professionals, and policy-makers alike.

EMERGING SOLUTIONS FOR E-MOBILITY AND SMART GRIDS

SELECT PROCEEDINGS OF ICRES 2020

Springer Nature This book presents select proceedings of the International Conference on Renewable Energy Systems (ICRES 2020). It focuses mainly on the concepts of electric vehicle, selection of batteries, selection of electric motors for specific capacity vehicles, design of controllers, battery chargers and development of testing facility. It presents the importance of energy storage system and modeling aspects of battery, super capacitor, flywheel energy storage and Superconducting magnetic energy storage systems. The book comprehensively presents the integration of renewable energy sources with smart grid, smart grid technologies and equipment, grid interconnection issues and design of intelligent controllers for grid connected system. The state-of-the-art technologies such as charging infrastructure for electric vehicles, robotic applications in energy, energy education and informatics are also covered in this book. This book will benefit the students and researchers in the field of electronics and electrical engineering, energy engineering, automotive engineering, e-mobility specialists and industrial experts.

INTELLIGENT SYSTEMS AND COMPUTER TECHNOLOGY

IOS Press Recent developments in soft-computation techniques have paved the way for handling huge volumes of data, thereby bringing about significant changes and technological advancements. This book presents the proceedings of the 3rd International Conference on Emerging Current Trends in Computing & Expert Technology (COMET 2020), held at Panimalar Engineering College, Chennai, India on 6 and 7 March 2020. The aim of the book is to disseminate cutting-edge developments taking place in the technological fields of intelligent systems and computer technology, thereby assisting researchers and practitioners from both institutions and industry to upgrade their knowledge of the latest developments and emerging areas of study. It focuses on technological innovations and trendsetting initiatives to improve business values, optimize business processes and enable inclusive growth for corporates, industries and education alike. The book is divided into two sections; 'Next Generation Soft Computing' is a platform for scientists, researchers, practitioners and academics to present and discuss their most recent innovations, trends and concerns, as well as the practical challenges encountered in the field. The second section, 'Evolutionary Networking and Communications' focuses on various aspects of 5G communications systems and networking, including cloud and virtualization solutions, management technologies, and vertical application areas. It brings together the latest technologies from all over the world, and also provides an excellent international forum for the sharing of knowledge and results from theory, methodology and applications in networking and communications. The book will be of interest to all those working in the fields of intelligent systems and

computer technology.

DESIGN AND CONTROL OF POWER CONVERTERS 2019

MDPI In this book, 20 papers focused on different fields of power electronics are gathered. Approximately half of the papers are focused on different control issues and techniques, ranging from the computer-aided design of digital compensators to more specific approaches such as fuzzy or sliding control techniques. The rest of the papers are focused on the design of novel topologies. The fields in which these controls and topologies are applied are varied: MMCs, photovoltaic systems, supercapacitors and traction systems, LEDs, wireless power transfer, etc.

FUZZY CONTROLLERS

RECENT ADVANCES IN THEORY AND APPLICATIONS

BoD - Books on Demand Fuzzy control theory is an emerging area of research. At the core of many engineering problems is the problem of control of different systems. These systems range all the way from classical inverted pendulum to auto-focusing system of a digital camera. Fuzzy control systems have demonstrated their enhanced performance in all these areas. Progress in this domain is very fast and there was critical need of a book that captures all the recent advances both in theory and in applications. Serving this purpose, this book is conceived. This book will provide you a very clear picture of current status of fuzzy control research. This book is intended for researchers, engineers, and postgraduate students specializing in fuzzy systems, control engineering, and robotics.

SCIENCE ABSTRACTS

ELECTRICAL & ELECTRONICS ABSTRACTS. SERIES B

PERMANENT MAGNET SYNCHRONOUS MACHINES

MDPI Interest in permanent magnet synchronous machines (PMSMs) is continuously increasing worldwide, especially with the increased use of renewable energy and the electrification of transports. This book contains the successful submissions of fifteen papers to a Special Issue of Energies on the subject area of "Permanent Magnet Synchronous Machines". The focus is on permanent magnet synchronous machines and the electrical systems they are connected to. The presented work represents a wide range of areas. Studies of control systems, both for permanent magnet synchronous machines and for brushless DC motors, are presented and

experimentally verified. Design studies of generators for wind power, wave power and hydro power are presented. Finite element method simulations and analytical design methods are used. The presented studies represent several of the different research fields on permanent magnet machines and electric drives.

AUTONOMOUS CONTROL OF UNMANNED AERIAL VEHICLES

MDPI Unmanned aerial vehicles (UAVs) are being increasingly used in different applications in both military and civilian domains. These applications include surveillance, reconnaissance, remote sensing, target acquisition, border patrol, infrastructure monitoring, aerial imaging, industrial inspection, and emergency medical aid. Vehicles that can be considered autonomous must be able to make decisions and react to events without direct intervention by humans. Although some UAVs are able to perform increasingly complex autonomous manoeuvres, most UAVs are not fully autonomous; instead, they are mostly operated remotely by humans. To make UAVs fully autonomous, many technological and algorithmic developments are still required. For instance, UAVs will need to improve their sensing of obstacles and subsequent avoidance. This becomes particularly important as autonomous UAVs start to operate in civilian airspaces that are occupied by other aircraft. The aim of this volume is to bring together the work of leading researchers and practitioners in the field of unmanned aerial vehicles with a common interest in their autonomy. The contributions that are part of this volume present key challenges associated with the autonomous control of unmanned aerial vehicles, and propose solution methodologies to address such challenges, analyse the proposed methodologies, and evaluate their performance.

ELECTRICAL & ELECTRONICS ABSTRACTS

INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING AND APPLICATIONS

PROCEEDINGS OF ICICA 2018

Springer The book is a collection of best papers presented at the International Conference on Intelligent Computing and Applications (ICICA 2018), held at Velammal Engineering College, Chennai, India on 2-3 February 2018. Presenting original work in the field of computational intelligence and power and computing technology, it focuses on soft computing applications in power systems; power-system modeling and control; FACTS devices - applications in power systems; power-system stability and switchgear and protection; power quality issues and solutions; smart grids; green and renewable energy technologies; optimization techniques in electrical systems; power electronics controllers for power systems; power converters and modeling; high voltage engineering; diagnosis and sensing systems; and robotics.

ADVANCES IN ENERGY AND POWER SYSTEMS

SELECT PROCEEDINGS OF ICAEDC 2017

Springer This book comprises select proceedings of the International Conference on Advancement in Energy, Drives, and Control. It covers pioneering topics in the field of renewable energy and power management, including energy storage, distribution, and control. It also discusses methods of optimizing power distribution and generation systems. This book is of use to researchers, professionals, and students from across engineering disciplines.

COMPUTATIONAL PARADIGM TECHNIQUES FOR ENHANCING ELECTRIC POWER QUALITY

CRC Press This book focusses on power quality improvement and enhancement techniques with aid of intelligent controllers and experimental results. It covers topics ranging from the fundamentals of power quality indices, mitigation methods, advanced controller design and its step by step approach, simulation of the proposed controllers for real time applications and its corresponding experimental results, performance improvement paradigms and its overall analysis, which helps readers understand power quality from its fundamental to experimental implementations. The book also covers implementation of power quality improvement practices.

Key Features Provides solution for the power quality improvement with intelligent techniques Incorporated and Illustrated with simulation and experimental results Discusses renewable energy integration and multiple case studies pertaining to various loads Combines the power quality literature with power electronics based solutions Includes implementation examples, datasets, experimental and simulation procedures

SOUVENIR OF 1ST INTERNATIONAL SCIENCE CONGRESS (ISC-2011)

International E Publication The International Science Congress Association (ISCA) organized the 1st International Science Congress (ISC-2011) at Indore, M.P. India with Science and Technology for Sustainable Development as its focal theme. The congress was hosted by Maharaja Ranjit Singh College of Professional Sciences on 24th and 25th December 2011. It was distributed in 20 sections. A total 900 Research Papers and 1300 registrations all over the world were received. Delegates from Malaysia, Egypt, Bangladesh, Nigeria, Indonesia, Iran, South Africa, Iraq, Mexico, Japan, Uganda, Pakistan, Kingdom of Saudi Arabia, Russia, Latvia, Nepal, Lithuanian and from length and breadth of our nation participated in the ISC-2011.

INTELLIGENT CONTROL IN ENERGY SYSTEMS

MDPI The editors of this Special Issue titled “Intelligent Control in Energy Systems” have attempted to create a book containing original technical articles addressing various elements of intelligent control in energy systems. In response to our call for papers, we received 60 submissions. Of those submissions, 27 were published and 33 were rejected. In this book, we offer the 27 accepted technical articles as well as one editorial. Authors from 15 countries (China, Netherlands, Spain, Tunisia, United States of America, Korea, Brazil, Egypt, Denmark, Indonesia, Oman, Canada, Algeria, Mexico, and the Czech Republic) elaborate on several aspects of intelligent control in energy systems. The book covers a broad range of topics including fuzzy PID in automotive fuel cell and MPPT tracking, neural networks for fuel cell control and dynamic optimization of energy management, adaptive control on power systems, hierarchical Petri Nets in microgrid management, model predictive control for electric vehicle battery and frequency regulation in HVAC systems, deep learning for power consumption forecasting, decision trees for wind systems, risk analysis for demand side management, finite state automata for HVAC control, robust μ -synthesis for microgrids, and neuro-fuzzy systems in energy storage.

ADVANCES IN ELECTRICAL CONTROL AND SIGNAL SYSTEMS

SELECT PROCEEDINGS OF AECSS 2019

Springer This book presents select proceedings of the International Conference on Advances in Electrical Control and Signal Systems (AECSS) 2019. The focus is on the current developments in control and signal systems in electrical engineering, and covers various topics such as power systems, energy systems, micro grid, smart grid, networks, fuzzy systems and their control. The book also discusses various properties and performance of signal systems and their applications in different fields. The contents of this book can be useful for students, researchers as well as professionals working in power and energy systems, and other related fields.

DISSERTATION ABSTRACTS INTERNATIONAL

THE SCIENCES AND ENGINEERING. B

ADVANCES IN POWER AND CONTROL ENGINEERING

PROCEEDINGS OF GUCON 2019

Springer Nature The book features selected high-quality papers presented at the International Conference on Computing, Power and

Communication Technologies 2019 (GUCON 2019), organized by Galgotias University, India, in September 2019. Divided into three sections, the book discusses various topics in the fields of power electronics and control engineering, power and energy systems, and machines and renewable energy. This interesting compilation is a valuable resource for researchers, engineers and students.

INTELLIGENT DATA ENGINEERING AND AUTOMATED LEARNING - IDEAL 2007

8TH INTERNATIONAL CONFERENCE, BIRMINGHAM, UK, DECEMBER 16-19, 2007, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 8th International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2007, held in Birmingham, UK, in December 2007. The papers include topical sections on learning and information processing, data mining and information management, bioinformatics and neuroinformatics, agents and distributed systems, financial engineering and modeling, and agent-based approach to service sciences.

AUTOMATIC SYSTEMS FOR BUILDING THE INFRASTRUCTURE IN DEVELOPING COUNTRIES 2001 (KNOWLEDGE AND TECHNOLOGY TRANSFER)

A PROCEEDINGS VOLUME FROM THE 2ND IFAC WORKSHOP DECOM-TT 2001, OHRID, REPUBLIC OF MACEDONIA, 21-23 MAY 2001

Pergamon This proceedings contains the papers presented at the 2nd IFAC Workshop DECOM-TT, on Automatic Systems for Building Infrastructure in Developing Countries, held in Ohrid, Republic of Macedonia, on 21-23 May 2001. The book is a valuable and timely source of important research literature on issues and topics in this critical application of control engineering. The proceedings is organised into thirteen groups of papers. Most of the groups are defined in accordance with the conference theme and the underlying topics. The last group of papers, however, presents contributions from the Supplemental Ways for Improving International Stability (SWIS) Special Session, organised by Prof. P. Kopacek in conjunction with the conference.

2000 IEEE 31Ú COMHDHÁIL BHLIANTÚIL NA SAINEOLAITHE AR LEICTREONAIC CHUMHACHTA : IMEACHTAÍ NA COMHDHÁLA

HANDBOOK OF RESEARCH ON EMERGENT APPLICATIONS OF OPTIMIZATION ALGORITHMS

IGI Global Modern optimization approaches have attracted an increasing number of scientists, decision makers, and researchers. As new issues in this field emerge, different optimization methodologies must be developed and implemented. The Handbook of Research on Emergent Applications of Optimization Algorithms is an authoritative reference source for the latest scholarly research on modern optimization techniques for solving complex problems of global optimization and their applications in economics and engineering. Featuring coverage on a broad range of topics and perspectives such as hybrid systems, non-cooperative games, and cryptography, this publication is ideally designed for students, researchers, and engineers interested in emerging developments in optimization algorithms.

EIGHTH INTERNATIONAL CONFERENCE ON POWER ELECTRONICS AND VARIABLE SPEED DRIVES

18-19 SEPTEMBER 2000 : VENUE, IEE, SAVOY PLACE, LONDON, UK

Inst of Engineering & Technology This title constitutes the proceedings of the Eighth International Conference on Power Electronics and Variable Speed Drives. There are 99 papers altogether.

FRACTIONAL DYNAMICAL SYSTEMS

METHODS, ALGORITHMS AND APPLICATIONS

Springer Nature This book presents a wide and comprehensive spectrum of issues and problems related to fractional-order dynamical systems. It is meant to be a full-fledge, comprehensive presentation of many aspects related to the broadly perceived fractional-order dynamical systems which constitute an extension of the traditional integer-order-type descriptions. This implies far-reaching consequences, both analytic and algorithmic, because in general properties of the traditional integer-order systems cannot be directly extended by a straightforward generalization to fractional-order systems, modeled by fractional-order differential equations involving derivatives of a non-integer order. This can be useful for describing and analyzing, for instance, anomalies in the behavior of various systems, chaotic behavior, etc. The book contains both analytic contributions with state-of-the-art and theoretical foundations, algorithmic implementation of tools and techniques, and finally some examples of relevant and successful practical applications.

INDEX TO IEEE PUBLICATIONS

Issues for 1973- cover the entire IEEE technical literature.

SIXTH INTERNATIONAL CONFERENCE ON POWER ELECTRONICS AND VARIABLE SPEED DRIVES

23-25 SEPTEMBER 1996, EAST MIDLANDS CONFERENCE CENTRE, NOTTINGHAM, UK

Inst of Engineering & Technology

THERMAL POWER PLANT SIMULATION AND CONTROL

IET An exploration of how advances in computing technology and research can be combined to extend the capabilities and economics of modern power plants. The contributors, from academia as well as practising engineers, illustrate how the various methodologies can be applied to power plant operation.

MODERN ELECTRICAL DRIVES

Springer Science & Business Media Electrical drives lie at the heart of most industrial processes and make a major contribution to the comfort and high quality products we all take for granted. They provide the controller power needed at all levels, from megawatts in cement production to milliwatts in wrist watches. Other examples are legion, from the domestic kitchen to public utilities. The modern electrical drive is a complex item, comprising a controller, a static converter and an electrical motor. Some can be programmed by the user. Some can communicate with other drives. Semiconductor switches have improved, intelligent power modules have been introduced, all of which means that control techniques can be used now that were unimaginable a decade ago. Nor has the motor side stood still: high-energy permanent magnets, semiconductor switched reluctance motors, silicon micromotor technology, and soft magnetic materials produced by powder technology are all revolutionising the industry. But the electric drive is an enabling technology, so the revolution is rippling throughout the whole of industry.

AT THE HELM

Directory of professors in the University of Malaya.

POWER TRANSFORMER DIAGNOSTICS, MONITORING AND DESIGN FEATURES

MDPI This book is a printed edition of the Special Issue "Power Transformer Diagnostics, Monitoring and Design Features" that was published in *Energies*

ENCYCLOPEDIA OF INFORMATION SCIENCE AND TECHNOLOGY, THIRD EDITION

IGI Global "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.

JOURNAL OF THE INSTITUTION OF ENGINEERS (INDIA).

ELECTRICAL ENGINEERING DIVISION
