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**Dingguo Zhang,Venketesh
Dubey,Wenwei Yu,Kin Huat Low**



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Proceedings of the Second International Conference on Computer and Communication Technologies Suresh Chandra Satapathy, K. Srujan Raju, Jyotsna Kumar Mandal, Vikrant Bhateja, 2015-09-03 The book is about all aspects of computing communication general sciences and educational research covered at the Second International Conference on Computer Communication Technologies held during 24-26 July 2015 at Hyderabad. It is hosted by CMR Technical Campus in association with Division V Education Research CSI India. After a rigorous review, only quality papers are selected and included in this book. The entire book is divided into three volumes. Three volumes cover a variety of topics which include medical imaging, networks, data mining, intelligent computing, software design, image processing, mobile computing, digital signals and speech processing, video surveillance and processing, web mining, wireless sensor networks, circuit analysis, fuzzy systems, antenna and communication systems, biomedical signal processing and applications, cloud computing, embedded systems, applications and cyber security, and digital forensic. The readers of these volumes will be highly benefited from the technical contents of the topics.

Control and Optimization of Distributed Generation Systems Magdi S. Mahmoud, Fouad M. AL-Sunni, 2015-05-14 This text is an introduction to the use of control in distributed power generation. It shows the reader how reliable control can be achieved so as to realize the potential of small networks of diverse energy sources either singly or in coordination for meeting concerns of energy cost, energy security, and environmental protection. The book demonstrates how such microgrids interconnecting groups of generating units and loads within a local area can be an effective means of balancing electrical supply and demand. It takes advantage of the ability to connect and disconnect microgrids from the main body of the power grid to give flexibility in response to special events, planned or unplanned. In order to capture the main opportunities for expanding the power grid and to present the plethora of associated open problems in control theory, *Control and Optimization of Distributed Generation Systems* is organized to treat three key themes, namely, system architecture and integration, modelling and analysis, and communications and control. Each chapter makes use of examples and simulations and appropriate problems to help the reader study. Tools helpful to the reader in accessing the mathematical analysis presented within the main body of the book are given in an appendix. *Control and Optimization of Distributed Generation Systems* will enable readers new to the field of distributed power generation and networked control, whether experienced academic migrating from another field or graduate student beginning a research career, to familiarize themselves with the important points of the control and regulation of microgrids. It will also be useful for practising power engineers wishing to keep abreast of changes in power grids necessitated by the diversification of generating methods.

Biomechatronics: Harmonizing Mechatronic Systems with Human Beings Dingguo Zhang, Venketesh Dubey, Wenwei Yu, Kin Huat Low, 2019-02-05 This eBook provides a comprehensive treatise on modern biomechatronic systems centred around human applications. A particular emphasis is given to exoskeleton designs for assistance and training with advanced interfaces in

human machine interaction Some of these designs are validated with experimental results which the reader will find very informative as building blocks for designing such systems This eBook will be ideally suited to those researching in biomechatronic area with bio feedback applications or those who are involved in high end research on man machine interfaces This may also serve as a textbook for biomechatronic design at post graduate level *Computational Intelligence in Cancer Diagnosis* Janmenjoy Nayak,Danilo Pelusi,Bighnaraj Naik,Manohar Mishra,Khan Muhammad,David Al-Dabass,2023-04-12 *Computational Intelligence in Cancer Diagnosis* Progress and Challenges provides insights into the current strength and weaknesses of different applications and research findings on computational intelligence in cancer research The book improves the exchange of ideas and coherence among various computational intelligence methods and enhances the relevance and exploitation of application areas for both experienced and novice end users Topics discussed include neural networks fuzzy logic connectionist systems genetic algorithms evolutionary computation cellular automata self organizing systems soft computing fuzzy systems and hybrid intelligent systems The book s chapters are written by international experts from both cancer research oncology and computational sides to cover different aspects and make it comprehensible for readers with no background on informatics Contains updated information about advanced computational intelligence spanning the areas of neural networks fuzzy logic connectionist systems genetic algorithms evolutionary computation cellular automata self organizing systems soft computing fuzzy systems and hybrid intelligent systems in diagnosing cancer diseases Discusses several cancer types including their detection treatment and prevention Presents case studies that illustrate the applications of intelligent computing in data analysis to help readers to analyze and advance their research in cancer **Robust Monitoring, Diagnostic Methods and Tools for Engineered Systems** Eleni N. Chatzi,Manolis N. Chatzis,Costas Papadimitriou,2020-10-23 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact **Cost-Effective Energy Efficient Building Retrofitting** F. Pacheco-Torgal,Claes-Göran Granqvist,Bjørn Peter Jelle,Giuseppe Peter Vanoli,Nicola Bianco,Jarek Kurnitski,2017-01-03 *Cost Effective Energy Efficient Building Retrofitting* Materials Technologies Optimization and Case Studies provides essential knowledge for civil engineers architects and other professionals working in the field of cost effective energy efficient building retrofitting The building sector is responsible for high energy consumption and its global demand is expected to grow as each day there are approximately 200 000 new inhabitants on planet Earth The majority of electric energy will continue to be generated from the combustion of fossil fuels releasing not only carbon dioxide but also

methane and nitrous oxide Energy efficiency measures are therefore crucial to reduce greenhouse gas emissions of the building sector Energy efficient building retrofitting needs to not only be technically feasible but also economically viable New building materials and advanced technologies already exist but the knowledge to integrate all active components is still scarce and far from being widespread among building industry stakeholders Emphasizes cost effective methods for the refurbishment of existing buildings presenting state of the art technologies Includes detailed case studies that explain various methods and Net Zero Energy Explains optimal analysis and prioritization of cost effective strategies **The**

^AOxford Handbook of Computational Economics and Finance Shu-Heng Chen,Mak Kaboudan,Ye-Rong Du,2018-01-12 This is an insightful survey of approaches to computational analysis of economics and finance *Advances in Artificial Intelligence: From Theory to Practice* Salem Benferhat,Karim Tabia,Moonis Ali,2017-06-10 The two volume set LNCS 10350 and 10351 constitutes the thoroughly refereed proceedings of the 30th International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems IEA AIE 2017 held in Arras France in June 2017 The 70 revised full papers presented together with 45 short papers and 3 invited talks were carefully reviewed and selected from 180 submissions They are organized in topical sections constraints planning and optimization data mining and machine learning sensors signal processing and data fusion recommender systems decision support systems knowledge representation and reasoning navigation control and autonome agents sentiment analysis and social media games computer vision and animation uncertainty management graphical models from theory to applications anomaly detection agronomy and artificial intelligence applications of argumentation intelligent systems in healthcare and mhealth for health outcomes and innovative applications of textual analysis based on AI *Handbook of Genetic Programming Applications* Amir H. Gandomi,Amir H. Alavi,Conor Ryan,2015-11-06 This contributed volume written by leading international researchers reviews the latest developments of genetic programming GP and its key applications in solving current real world problems such as energy conversion and management financial analysis engineering modeling and design and software engineering to name a few Inspired by natural evolution the use of GP has expanded significantly in the last decade in almost every area of science and engineering Exploring applications in a variety of fields the information in this volume can help optimize computer programs throughout the sciences Taking a hands on approach this book provides an invaluable reference to practitioners providing the necessary details required for a successful application of GP and its branches to challenging problems ranging from drought prediction to trading volatility It also demonstrates the evolution of GP through major developments in GP studies and applications It is suitable for advanced students who wish to use relevant book chapters as a basis to pursue further research in these areas as well as experienced practitioners looking to apply GP to new areas The book also offers valuable supplementary material for design courses and computation in engineering *Neural Network Toolbox* ,1992 **Neural Network Toolbox** Howard Demuth,Mark Beale,1998 **MATLAB Neural Network Toolbox** Howard Demuth,Mark Beale,1997 **Neural Network**

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