in Fuzziness
and
Soft Computing

Seppo J. Ovaska
Les M. Sztandera

Editors

Soft Computing in Industrial Electronics

Soft Computing In Industrial Electronics

Faisal Saeed,Nadhmi Gazem,Fathey Mohammed,Abdelsalam Busalim

Soft Computing In Industrial Electronics:

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Bhattacharya,2025-04-28 This reference text covers the theory and applications of soft computing and machine learning and presents readers with the intelligent fuzzy and neutrosophic rules that require situations where classical modeling approaches cannot be utilized such as when there is incomplete unclear or imprecise information at hand or inadequate data It further illustrates topics such as image processing and power system analysis This book Discusses soft computing techniques including fuzzy Logic rough sets neutrosophic sets neural networks generative adversarial networks and evolutionary computation Examines novel and contemporary advances in the fields of soft computing fuzzy computing neutrosophic computing and machine learning systems as well as their applications in real life Serves as a comprehensive reference for applying machine learning and neutrosophic sets in real world applications such as smart cities healthcare and the Internet of Things Covers topics such as image processing bioinformatics natural language processing supply chain management and cybernetics Illustrates classification of neutrosophic machine learning neutrosophic reinforcement learning and applications of neutrosophic machine learning in emerging industries The text is written for senior undergraduate students graduate students and academic researchers in the fields of electrical engineering electronics and communications engineering computer science and engineering and information technology   Soft Computing in Renewable Energy Technologies Najib El Ouanjli,Mahmoud A. Mossa,Mariya Ouaissa,Sanjeevikumar Padmanaban,Said Mahfoud,2024-10-10 This book addresses and disseminates state of the art research and development in the applications of soft computing techniques for renewable energy systems It covers topics such as solar energy wind energy and solar concentrator technologies as well as building systems and power generation systems In all these areas applications of soft computing methods such as artificial neural networks genetic algorithms particle swarm optimization cuckoo search fuzzy logic and a combination of these called hybrid systems are included This book is a source for students interested in the fields of renewable energy and the application of the soft computing In addition our book can be considered as a reference for researchers and academics since it will include applications of soft computing in different renewable energy systems **Soft-Computing-Based Nonlinear Control Systems Design** Singh, Uday Pratap,Tiwari, Akhilesh,Singh, Rajeev Kumar,2018-02-09 A critical part of ensuring that systems are advancing alongside technology without complications is problem solving Practical applications of problem solving theories can model conflict and cooperation and aid in creating solutions to real world problems Soft Computing Based Nonlinear Control Systems Design is a critical scholarly publication that examines the practical applications of control theory and its applications in problem solving to fields including economics environmental management and financial modelling Featuring a wide range of topics such as fuzzy logic nature inspired algorithms and cloud computing this book is geared toward academicians researchers and students seeking relevant research on control theory and its practical applications   **Problem Solving and Uncertainty Modeling through Optimization and Soft Computing Applications** Saxena, Pratiksha,Singh, Dipti,Pant, Millie,2016-03-01 Optimization

techniques have developed into a modern day solution for real world problems in various industries As a way to improve performance and handle issues of uncertainty optimization research becomes a topic of special interest across disciplines Problem Solving and Uncertainty Modeling through Optimization and Soft Computing Applications presents the latest research trends and developments in the area of applied optimization methodologies and soft computing techniques for solving complex problems Taking a multi disciplinary approach this critical publication is an essential reference source for engineers managers researchers and post graduate students *Advances in Soft Computing and Its Applications* Félix Castro,Alexander Gelbukh,Miguel González,2013-11-18 The two volume set LNAI 8265 and LNAI 8266 constitutes the proceedings of the 12th Mexican International Conference on Artificial Intelligence MICAI 2013 held in Mexico City Mexico in November 2013 The total of 85 papers presented in these proceedings were carefully reviewed and selected from 284 submissions The first volume deals with advances in artificial intelligence and its applications and is structured in the following five sections logic and reasoning knowledge based systems and multi agent systems natural language processing machine translation and bioinformatics and medical applications The second volume deals with advances in soft computing and its applications and is structured in the following eight sections evolutionary and nature inspired metaheuristic algorithms neural networks and hybrid intelligent systems fuzzy systems machine learning and pattern recognition data mining computer vision and image processing robotics planning and scheduling and emotion detection sentiment analysis and opinion mining **New Directions in Rough Sets, Data Mining, and Granular-Soft Computing** Ning Zhong,Setsuo Ohsuga,2004-06-22 This book constitutes the refereed proceedings of the 7th International Workshop on Rough Sets Fuzzy Sets Data Mining and Granular Soft Computing RSFDGrC 99 held in Yamaguchi Japan in November 1999 The 45 revised regular papers and 15 revised short papers presented together with four invited contributions were carefully reviewed and selected from 89 submissions The book is divided into sections on rough computing foundations and applications rough set theory and applications fuzzy set theory and applications nonclassical logic and approximate reasoning information granulation and granular computing data mining and knowledge discovery machine learning and intelligent agents and systems *Proceedings of the Tenth International Conference on Soft Computing and Pattern Recognition (SoCPaR 2018)* Ana Maria Madureira,Ajith Abraham,Niketa Gandhi,Catarina Silva,Mário Antunes,2019-04-09 This book highlights recent research on Soft Computing Pattern Recognition Information Assurance and Security It presents 38 selected papers from the 10th International Conference on Soft Computing and Pattern Recognition SoCPaR 2018 and the 14th International Conference on Information Assurance and Security IAS 2018 held at Instituto Superior de Engenharia do Porto ISEP Portugal during December 13 15 2018 SoCPaR IAS 2018 is a premier conference and brings together researchers engineers and practitioners whose work involves soft computing and information assurance and their applications in industry and the real world Including contributions by authors from over 25 countries the book offers a valuable reference guide for all

researchers students and practitioners in the fields of Computer Science and Engineering **Differential Evolution in Electromagnetics** Anyong Qing,Ching Kwang Lee,2010-05-28 Differential evolution has proven itself a very simple while very powerful stochastic global optimizer It has been applied to solve problems in many scientific and engineering fields This book focuses on applications of differential evolution in electromagnetics to showcase its achievement and capability in solving synthesis and design problems in electromagnetics Topics covered in this book include A comprehensive up to date literature survey on differential evolution A systematic description of differential evolution A topical review on applications of differential evolution in electromagnetics Five new application examplesThis book is ideal for electromagnetic researchers and people in differential evolution community It is also a valuable reference book for researchers and students in the optimization or electrical and electronic engineering field In addition managers and engineers in relevant fields will find it a helpful introductory guide **Advanced Control of Electrical Drives and Power Electronic Converters** Jacek Kabziński,2016-09-30 This contributed volume is written by key specialists working in multidisciplinary fields in electrical engineering linking control theory power electronics artificial neural networks embedded controllers and signal processing The authors of each chapter report the state of the art of the various topics addressed and present results of their own research laboratory experiments and successful applications The presented solutions concentrate on three main areas of interest motion control in complex electromechanical systems including sensorless control fault diagnosis and fault tolerant control of electric drives new control algorithms for power electronics converters The chapters and the complete book possess strong monograph attributes Important practical and theoretical problems are deeply and accurately presented on the background of an exhaustive state of the art review Many results are completely new and were never published before Well known control methods like field oriented control FOC or direct torque control DTC are referred as a starting point for modifications or are used for comparison Among numerous control theories used to solve particular problems are nonlinear control robust control adaptive control Lyapunov techniques observer design model predictive control neural control sliding mode control signal filtration and processing fault diagnosis and fault tolerant control Diagnostic, Reliablility and Control Systems Cornelius T. Leondes,2000-09-11 The technical committee on mechatronics formed by the International Federation for the Theory of Machines and Mechanisms in Prague Czech Republic adopted the following definition for the term Mechatronics is the synergistic combination of precision mechanical engineering electronic control and systems thinking in the design products and manufacturing process Due to developments in powerful computers including microprocessors and Application Specific Integrated Circuits ASICS computational techniques diverse technologies advances in the design process of products and other factors the field of mechatronics has evolved as a highly powerful and most cost effective means for product realization

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