STUDIES IN FUZZINESS AND SOFT COMPUTING

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Soft Computing in Industrial Electronics



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International Conference on Soft Computing for Security Applications ICSCS 2022 held at Dhirajlal Gandhi College of Technology Tamil Nadu India during April 21 22 2022 It covers recent advances in the field of soft computing techniques such as fuzzy logic neural network support vector machines evolutionary computation machine learning and probabilistic reasoning to solve various real time challenges This book presents innovative work by leading academics researchers and experts from industry Soft Computing Applications Valentina Emilia Balas, Janos Fodor, Annamária R. Várkonyi-Kóczy, Joszef Dombi, Lakhmi C Jain, 2012-10-31 This volume contains the Proceedings of the 5th International Workshop on Soft Computing Applications SOFA 2012 The book covers a broad spectrum of soft computing techniques theoretical and practical applications employing knowledge and intelligence to find solutions for world industrial economic and medical problems. The combination of such intelligent systems tools and a large number of applications introduce a need for a synergy of scientific and technological disciplines in order to show the great potential of Soft Computing in all domains The conference papers included in these proceedings published post conference were grouped into the following area of research Soft Computing and Fusion Algorithms in Biometrics Fuzzy Theory Control and Applications Modelling and Control Applications Steps towards Intelligent Circuits Knowledge Based Technologies for Web Applications Cloud Computing and Security Algorithms Computational Intelligence for Biomedical Applications Neural Networks and Applications Intelligent Systems for Image Processing Knowledge Management for Business Process and Enterprise Modelling The combination of intelligent systems tools and a large number of applications introduce a need for a synergy of scientific and technological disciplines in order to show the great potential of Soft Computing in all domains **Soft Computing in Wireless Sensor Networks** Huynh Thi Thanh Binh, Nilanjan Dey, 2018-09-27 This book focuses on the suitable methods to solve optimization problems in wireless network system utilizing digital sensors like Wireless Sensor Network This kind of system has been emerging as the cornerstone technology for all new smart devices and its direct application in many fields in life Recent Trends in Data Science and Soft Computing Faisal Saeed, Nadhmi Gazem, Fathey Mohammed, Abdelsalam Busalim, 2018-09-08 This book presents the proceedings of the 3rd International Conference of Reliable Information and Communication Technology 2018 IRICT 2018 which was held in Kuala Lumpur Malaysia on July 23 24 2018 The main theme of the conference was Data Science AI and IoT Trends for the Fourth Industrial Revolution A total of 158 papers were submitted to the conference of which 103 were accepted and considered for publication in this book Several hot research topics are covered including Advances in Data Science and Big Data Analytics Artificial Intelligence and Soft Computing Business Intelligence Internet of Things IoT Technologies and Applications Intelligent Communication Systems Advances in Computer Vision Health Informatics Reliable Cloud Computing Environments Recent Trends in Knowledge Management Security Issues in the Cyber World and Advances in Information Systems Research Theories and Methods Soft Computing and Machine Learning Mohd Anas Wajid, Aasim Zafar, Mohammad Saif Wajid, Akib Mohi Ud Din Khanday, Pronaya

Bhattacharva, 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 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

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