

# SOFT COMPUTING AND INDUSTRY RECENT APPLICATIONS

Rajkumar Roy, Mario Köppen,  
Seppo Ovaska, Takeshi Furuhashi,  
and Frank Hoffmann (Eds.)



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# Soft Computing And Industry Recent Applications

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*New Concepts and Applications in Soft Computing* Valentina Emilia Balas, János Fodor, Annamária R. Várkonyi-Kóczy, 2012-07-20 The book provides a sample of research on the innovative theory and applications of soft computing paradigms The idea of Soft Computing was initiated in 1981 when Professor Zadeh published his first paper on soft data analysis and constantly evolved ever since Professor Zadeh defined Soft Computing as the fusion of the fields of fuzzy logic FL neural network theory NN and probabilistic reasoning PR with the latter subsuming belief networks evolutionary computing including DNA computing chaos theory and parts of learning theory into one multidisciplinary system As Zadeh said the essence of soft computing is that unlike the traditional hard computing soft computing is aimed at an accommodation with the pervasive imprecision of the real world Thus the guiding principle of soft computing is to exploit the tolerance for imprecision uncertainty and partial truth to achieve tractability robustness low solution cost and better rapport with reality In the final analysis the role model for soft computing is the human mind We hope that the reader will share our excitement and find our volume both useful and inspiring

[Soft Computing in Industry 5.0 for Sustainability](#) C Kishor Kumar Reddy, Thandiwe Sithole, Mariya Ouaisa, Özen ÖZER, Marlia M. Hanafiah, 2024-11-15 Soft computing and Industry 5.0 are two distinct concepts that when combined can have a significant impact on sustainability initiatives within various industries Soft computing is a subfield of artificial intelligence AI that aims to address problems characterized by uncertainty imprecision and partial truth It encompasses various computational techniques such as fuzzy logic neural networks genetic algorithms and machine learning which enable machines to deal with complex and uncertain data in a more human like manner Soft computing techniques are particularly valuable in sustainability efforts because they can handle non linear relationships and uncertain data that often arise in environmental and social contexts For example they can be used to optimize energy consumption waste management and resource allocation in industries by considering various factors and trade offs The book highlights the latest innovations in intelligent systems in classical machine learning deep learning Internet of Things IoT Industrial Internet of Things IIoT blockchain knowledge representation knowledge management big

data and natural language processing NLP The book contains many contemporary articles from both scientists and practitioners working in many fields where soft computing intelligent systems and the IIoT can break new ground Intelligent systems and the Internet of Things are now essential technologies in almost every field From agriculture to industry to healthcare the scope of smart systems and IIoT is as wide as the horizon Nowadays these technologies are extensively used in developed countries but they are still at an early stage in emerging countries The primary market of this book is senior undergraduate students post graduate students practitioners researchers academicians industrialists and professionals working in areas of core computer science electrical engineering mechanical engineering environmental engineering and agricultural engineering The secondary audience of this book is individuals working in the areas of manufacturing agriculture remote sensing environmental engineering health care smart cities smart farming remote sensing supply chain management and hydrology *Industrial Applications of Soft Computing* Kauko Leiviskä, 2013-11-11 Applications of Soft Computing have recently increased and methodological development has been strong The book is a collection of new interesting industrial applications introduced by several research groups and industrial partners It describes the principles and results of industrial applications of Soft Computing methods and introduces new possibilities to gain technical and economic benefits by using this methodology The book shows how fuzzy logic and neural networks have been used in the Finnish paper and metallurgical industries putting emphasis on processes applications and technical and economic results

**Soft Computing in Industrial Applications** António Gaspar-Cunha, Ricardo Takahashi, Gerald Schaefer, Lino Costa, 2011-04-27 The 15th Online World Conference on Soft Computing in Industrial Applications held on the Internet constitutes a distinctive opportunity to present and discuss high quality papers making use of sophisticated Internet tools and without incurring in high cost and thus facilitating the participation of people from the entire world The book contains a collection of papers covering outstanding research and developments in the field of Soft Computing including evolutionary computation fuzzy control and neuro fuzzy systems bio inspired systems optimization techniques and application of Soft Computing techniques in modeling control optimization data mining pattern recognition and traffic and transportation systems **Soft Computing in Industrial Applications** Václav Snášel, Pavel Krömer, Mario Köppen, Gerald Schaefer, 2013-11-20 This volume of Advances in Intelligent Systems and Computing contains accepted papers presented at WSC17 the 17th Online World Conference on Soft Computing in Industrial Applications held from December 2012 to January 2013 on the Internet WSC17 continues a successful series of scientific events started over a decade ago by the World Federation of Soft Computing It brought together researchers from over the world interested in the ever advancing state of the art in the field Continuous technological improvements make this online forum a viable gathering format for a world class conference The aim of WSC17 was to disseminate excellent research results and contribute to building a global network of scientists interested in both theoretical foundations and practical applications of soft computing The 2012 edition of the

Online World Conference on Soft Computing in Industrial Applications consisted of general track and special session on Continuous Features Discretization for Anomaly Intrusion Detectors Generation and special session on Emerging Theories and Applications in Transportation Science A total of 33 high quality research papers were accepted after a rigorous review process and are provided in this book

*17th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2022)* Pablo García Bringas, Hilde Pérez García, Francisco Javier Martínez-de-Pison, José Ramón Villar Flecha, Alicia Troncoso Lora, Enrique A. de la Cal, Álvaro Herrero, Francisco Martínez Álvarez, Giuseppe Psaila, Héctor Quintián, Emilio S. Corchado Rodríguez, 2022-10-11 This book contains accepted papers presented at SOCO 2022 conference held in the beautiful and historic city of Salamanca Spain in September 2022 Soft computing represents a collection or set of computational techniques in machine learning computer science and some engineering disciplines which investigate simulate and analyze very complex issues and phenomena After a thorough peer review process the 17th SOCO 2022 International Program Committee selected 64 papers which are published in these conference proceedings and represent an acceptance rate of 60% In this relevant edition a particular emphasis was put on the organization of special sessions Seven special sessions were organized related to relevant topics such as machine learning and computer vision in Industry 4.0 time series forecasting in industrial and environmental applications optimization modeling and control by soft computing techniques soft computing applied to renewable energy systems preprocessing big data in machine learning tackling real world problems with artificial intelligence The selection of papers was extremely rigorous to maintain the high quality of the conference We want to thank the members of the program committees for their hard work during the reviewing process This is a crucial process for creating a high standard conference the SOCO conference would not exist without their help

Advances in Soft Computing Rajkumar Roy, Takeshi Furuhashi, Pravir K. Chawdhry, 2012-12-06 Advances in Soft Computing contains the most recent developments in the field of soft computing in engineering design and manufacture The book comprises a selection of papers that were first presented in June 1998 at the 3rd On line World Conference on Soft Computing in Engineering Design and Manufacturing Amongst these are four invited papers by World renowned researchers in the field Soft computing is a collection of methodologies which aim to exploit tolerance for imprecision uncertainty and partial truth to achieve tractability robustness and low solution cost The area of applications of soft computing is extensive Principally the constituents of soft computing are fuzzy computing neuro computing genetic computing and probabilistic computing The topics in this book are well focused on engineering design and manufacturing This broad collection of 43 research papers has been arranged into nine parts by the editors These include Design Support Systems Intelligent Control Data Mining and New Topics in EA basics The papers on evolutionary design and optimisation are of particular interest Innovative techniques are explored and the reader is introduced to new highly advanced research results The editors present a unique collection of papers that provide a comprehensive overview of current developments in soft computing research

around the world     *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     *14th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2019)* Francisco Martínez Álvarez, Alicia Troncoso Lora, José António Sáez Muñoz, Héctor Quintián, Emilio Corchado, 2019-04-30 This book includes 57 papers presented at the SOCO 2019 conference held in the historic city of Seville Spain in May 2019 Soft computing represents a set of computational techniques in machine learning computer science and various engineering disciplines which investigate simulate and analyze very complex issues and phenomena The selection of papers was extremely rigorous in order to maintain the high quality of the conference which featured a number of special sessions including sessions on Soft Computing Methods in Manufacturing and Management Systems Soft Computing Applications in the Field of Industrial and Environmental Enterprises Optimization Modeling and Control by Soft Computing Techniques and Soft Computing in Aerospace Mechanical and Civil Engineering New methods and Industrial Applications     10th International Conference on Soft Computing Models in Industrial and Environmental Applications Álvaro Herrero, Javier Sedano, Bruno Baruque, Héctor Quintián, Emilio Corchado, 2015-05-31 This volume of *Advances in Intelligent and Soft Computing* contains accepted papers presented at the 10th International Conference on Soft Computing Models in Industrial and Environmental Applications SOCO 2015 held in the beautiful and historic city of Burgos Spain in June 2015 Soft computing represents a collection or set of computational techniques in machine learning computer science and some engineering disciplines which investigate simulate and analyze very complex issues and phenomena This Conference is mainly focused on its industrial and environmental applications After a thorough peer review process the SOCO 2015 International Program Committee selected 41 papers written by authors from 15 different countries These papers are published in present conference proceedings achieving an acceptance rate of 40% The selection of papers was extremely rigorous in order to maintain the high quality of the conference and we would like to thank the members of the International

Program Committees for their hard work during the review process This is a crucial issue for creation of a high standard conference and the SOCO conference would not exist without their help      *Recent Developments and the New Direction in Soft-Computing Foundations and Applications* Shahnaz N. Shahbazova, Janusz Kacprzyk, Valentina Emilia Balas, Vladik Kreinovich, 2020-07-10 This book gathers authoritative contributions in the field of Soft Computing Based on selected papers presented at the 7th World Conference on Soft Computing which was held on May 29 31 2018 in Baku Azerbaijan it describes new theoretical advances as well as cutting edge methods and applications New theories and algorithms in fuzzy logic cognitive modeling graph theory and metaheuristics are discussed and applications in data mining social networks control and robotics geoscience biomedicine and industrial management are described This book offers a timely broad snapshot of recent developments including thought provoking trends and challenges that are yielding new research directions in the diverse areas of Soft Computing      **Soft Computing as Transdisciplinary Science and Technology** Ajith Abraham, Yasuhiko Dote, Takeshi Furuhashi, Mario Köppen, Azuma Ohuchi, Yukio Ohsawa, 2007-12-14 This book presents the proceedings of the Fourth International Workshop on Soft Computing as Transdisciplinary Science and Technology WSTST 05 May 25 27 2005 Muroran Japan It brings together the original work of international soft computing computational intelligence researchers developers practitioners and users This proceedings provide contributions to all areas of soft computing including intelligent hybrid systems agent based systems intelligent data mining decision support systems cognitive and reactive distributed artificial intelligence AI internet modelling human interface and applications in science and technology      **Soft Computing Models in Industrial and Environmental Applications, 6th International Conference SOCO 2011** Emilio Corchado, Vaclav Snasael, Javier Sedano, Aboul Ella Hassanien, José Luis Calvo, Dominik Slezak, 2011-03-04 This volume of Advances in Intelligent and Soft Computing contains accepted papers presented at SOCO 2011 held in the beautiful and historic city of Salamanca Spain April 2011 This volume presents the papers accepted for the 2011 edition both for the main event and the Special Sessions SOCO 2011 Special Sessions are a very useful tool in order to complement the regular program with new or emerging topics of particular interest to the participating community Four special sessions were organized related to relevant topics as Optimization and Control in Industry Speech Processing and Soft Computing Systems Man Cybernetics and Soft Computing for Medical Applications      **Soft Computing in Industrial Electronics** Seppo J. Ovaska, Les M. Sztandera, 2013-06-05 It is expected that the use of soft computing will increase greatly in industrial applications because the conceptual structure of hard computing is much too precise in relation to the great imprecision of the world around us This book aims at attracting researchers and engineers both in the fields of industrial electronics IE and computational intelligence CI By approaching the different viewpoints of IE and CI people it is hoped to provide practicing engineers with new solutions to the demanding real world problems The applications are divided into two categories Electric Power Applications and Emerging Applications      *16th International Conference on Soft Computing Models in Industrial*



*and Environmental Applications (SOCO 2021)* Hugo Sanjurjo González, Iker Pastor López, Pablo García Bringas, Héctor Quintián, Emilio Corchado, 2021-09-22 This book of Advances in Intelligent and Soft Computing contains accepted papers presented at SOCO 2021 conference held in the beautiful and historic city of Bilbao Spain in September 2021 Soft computing represents a collection or set of computational techniques in machine learning computer science and some engineering disciplines which investigate simulate and analyze very complex issues and phenomena After a through peer review process the 16th SOCO 2021 International Program Committee selected 78 papers which are published in these conference proceedings and represents an acceptance rate of 48% In this relevant edition a special emphasis is put on the organization of special sessions Seven special sessions are organized related to relevant topics as follows applications of machine learning in computer vision soft computing applied to autonomous robots and renewable energy systems optimization modeling and control by soft computing techniques OMCS challenges and new approaches toward artificial intelligence deployments in real world scenarios time series forecasting in industrial and environmental applications TSF soft computing methods in manufacturing and management systems and applied machine learning The selection of papers was extremely rigorous in order to maintain the high quality of the conference and we would like to thank the members of the program committees for their hard work in the reviewing process This is a crucial process to the creation of a high standard conference and the SOCO conference would not exist without their help

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