SOFT COMPUTING

Applications of Soft Computing

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SOFT COMPUTING

Applications And Science In Soft Computing

Kumar S. Ray

Applications And Science In Soft Computing:

Applications and Science in Soft Computing Ahmad Lotfi,Jonathan M. Garibaldi,2013-06-29 Soft computing techniques have reached a significant level of recognition and ceptance from both the academic and industrial communities The papers collected in this volume illustrate the depth of the current theoretical research trends and the breadth of the application areas in which soft computing methods are making c tributions This volume consists of forty six selected papers presented at the Fourth Inter tional Conference on Recent Advances in Soft Computing which was held in N th th tingham United Kingdom on 12 and 13 December 2002 at Nottingham Trent University This volume is organized in five parts The first four parts address mainly the f damental and theoretical advances in soft computing namely Artificial Neural Networks Evolutionary Computing Fuzzy Systems and Hybrid Systems The fifth part of this volume presents papers that deal with practical issues and ind trial applications of soft computing techniques We would like to express our sincere gratitude to all the authors who submitted contributions for inclusion We are also indebted to Janusz Kacprzyk for his vices related to this volume We hope you find the volume an interesting refl tion of current theoretical and application based soft computing research Applications of Soft Computing Ashutosh Tiwari,Joshua Knowles,Erel Avineri,Keshav Dahal,Rajkumar Roy,2010-04-08 Soft Computing is a complex of methodologies that embraces approximate reasoning imprecision uncertainty and partial truth in order to mimic the remarkable human capability of making decisions in real life ambiguous environments Soft Computing has therefore become popular in developing systems that encapsulate human expertise Applications of Soft Computing Recent Trends contains a collection of papers that were presented at the 10th Online World Conference on Soft Computing in Industrial Applications held in September 2005 This carefully edited book provides a comprehensive overview of the recent advances in the industrial applications of soft computing and covers a wide range of application areas including optimisation data analysis and data mining computer graphics and vision prediction and diagnosis design intelligent control and traffic and transportation systems The book is aimed at researchers and professional engineers who are engaged in developing and applying intelligent systems It is also suitable as wider reading for science and engineering postgraduate students **Applied Soft Computing** Samarjeet Borah,Ranjit Panigrahi,2022-02-02 This new volume explores a variety of modern techniques that deal with estimated models and give resolutions to complex real life issues Soft computing has played a crucial role not only with theoretical paradigms but is also popular for its pivotal role for designing a large variety of expert systems and artificial intelligence based applications Involving the concepts and practices of soft computing in conjunction with other frontier research domains this book begins with the basics and goes on to explore a variety of modern applications of soft computing in areas such as approximate reasoning artificial neural networks Bayesian networks big data analytics bioinformatics cloud computing control systems data mining functional approximation fuzzy logic genetic and evolutionary algorithms hybrid models machine learning metaheuristics neuro fuzzy system optimization randomized

searches and swarm intelligence This book will be helpful to a wide range of readers who wish to learn applications of soft computing approaches It will be useful for academicians researchers students and machine learning experts who use soft computing techniques and algorithms to develop cutting edge artificial intelligence based applications **Applications of Soft Computing** Erel Avineri,Mario Köppen,Keshav Dahal,Yos Sunitiyoso,Rajkumar Roy,2008-12-28 Soft Computing is a complex of methodologies that includes artificial neural networks genetic algorithms fuzzy logic Bayesian networks and their hybrids It admits approximate reasoning imprecision uncertainty and partial truth in order to mimic the remarkable human capability of making decisions in real life ambiguous environments Soft Computing has therefore become popular in developing systems that encapsulate human expertise Applications of Soft Computing Updating the State of Art contains a collection of papers that were presented at the 12th On line World Conference on Soft Computing in Industrial Applications held in October 2007 This carefully edited book provides a comprehensive overview of the recent advances in the industrial applications of soft computing and covers a wide range of application areas including design intelligent control optimization signal processing pattern recognition computer graphics production as well as civil engineering and applications to traffic and transportation systems The book is aimed at researchers and practitioners who are engaged in developing and applying intelligent systems principles to solving real world problems It is also suitable as wider reading for science and engineering postgraduate students **Soft Computing Methods in Human Sciences** Vesa A. Niskanen,2003-08-19 An in depth look at soft computing methods and their applications in the human sciences such as the social and the behavioral sciences Soft computing methods including fuzzy systems neural networks evolutionary computing and probabilistic reasoning are state of the art methods in theory formation and model construction The powerful application areas of these methods in the human sciences are demonstrated including the replacement of statistical models by simpler numerical or linguistic soft computing models and the use of computer simulations with approximate and linguistic constituents Dr Niskanen s work opens new vistas in application of soft computing fuzzy logic and fuzzy set theory to the human sciences This book is likely to be viewed in retrospect as a landmark in its field Lotfi A Zadeh Berkeley 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 **Soft Computing** Pradip Debnath,Oscar Castillo,Poom Kumam,2023 This book explores Soft Computing techniques in a systematic manner starting from their initial stage to recent developments in this area The book presents a survey of the existing knowledge and also the current state of the art development through cutting edge original new contributions from the researchers Soft Computing Recent Advances and Applications in Engineering and Mathematical Sciences presents a survey of the existing knowledge and also the current state of the art development through cutting edge original new contributions from the researchers As suggested by the title this book particularly focuses on the recent advances and applications of soft computing techniques in engineering and mathematical sciences The first chapter describes the contribution of soft computing techniques towards a new paradigm shift The subsequent chapters present a systematic application of fuzzy logic in mathematical sciences and decision making New research directions are also provided at the end of each chapter The application of soft computing in health sciences and in the modeling of epidemics including the effects of vaccination are also examined Sustainability of green product development optimum design of 3D steel frame digitalization investment analysis in the maritime industry forecasting return rates of individual pension funds are among some of the topics where engineering and industrial applications of soft computing have been studied in the book The readers of this book will require minimum pre requisites of undergraduate studies in computation and mathematics This book is meant for graduate students faculty and researchers that are applying soft computing in engineering and mathematics New research directions are also provided at the end of each chapter *Soft Computing And Its Applications* Rafik Aziz Aliev,Rashad Rafig Aliyev,2001-09-06 The concept of soft computing is still in its initial stages of crystallization Presently available books on soft computing are merely collections of chapters or articles about different aspects of the field This book is the first to provide a systematic account of the major concepts and methodologies of soft computing presenting a unified framework that makes the subject more accessible to students and practitioners Particularly worthy of note is the inclusion of a wealth of information about neuro fuzzy neuro genetic fuzzy genetic and neuro fuzzy genetic systems with many illuminating applications and examples *Soft Computing and Its Applications* Kumar S. Ray,2018 This two volume set explains the primary tools of soft computing as well as provides an abundance of working examples and detailed design studies The books start with coverage of fuzzy sets and fuzzy logic and their various approaches to fuzzy reasoning and go on to discuss several advanced features of soft computing and hybrid methodologies Together they provide a platform for handling different kinds of uncertainties of real life problems It introduces the reader to the topic of rough sets The volumes Discuss the present state of art of soft computing Include the existing application areas of soft computing Present original research contributions Discuss the future scope of work in soft

computing This set is unique in that it bridges the gap between theory and practice and it presents several experimental results on synthetic data and real life data The books provide a unified platform for applied scientists and engineers in different fields and industries for the application of soft computing tools in many diverse domains of engineering The major theme of the volume is to justify the term soft computing which is essential to handle the vagueness of the real world The primary tool of soft computing is well discussed with plenty of worked out examples and design studies The books can be utilized as a standard textbook on soft computing for final year undergraduate students postgraduate students research scholars professional researchers and industry R D groups The unique feature of the books is that the author clearly presents the state of art with several worked out examples and case studies based on synthetic data and real life data The application domains of soft computing are also clearly indicated The volumes can be used as a textbook and or reference book by undergraduate and postgraduate students of many different engineering branches such as electrical engineering control engineering electronics and communication engineering computer sciences and information sciences *Soft Computing and Its Applications, Volume One* Kumar S. Ray,2014-09-16 This is volume 1 of the two volume set Soft Computing and Its Applications This volume explains the primary tools of soft computing as well as provides an abundance of working examples and detailed design studies The book starts with coverage of fuzzy sets and fuzzy logic and their various approaches to fuzzy reasoning Precisely speaking this book provides a platform for handling different kinds of uncertainties of real life problems It introduces the reader to the topic of rough sets This book s companion volume Volume 2 Fuzzy Reasoning and Fuzzy Control will move forward from here to discuss several advanced features of soft computing and application methodologies This new book Discusses the present state of art of soft computing Includes the existing application areas of soft computing Presents original research contributions Discusses the future scope of work in soft computing The book is unique in that it bridges the gap between theory and practice and it presents several experimental results on synthetic data and real life data The book provides a unified platform for applied scientists and engineers in different fields and industries for the application of soft computing tools in many diverse domains of engineering **Soft Computing Techniques in Engineering, Health, Mathematical and Social Sciences** Pradip Debnath,S. A. Mohiuddine,2021-07-15 Soft computing techniques are no longer limited to the arena of computer science The discipline has an exponentially growing demand in other branches of science and engineering and even into health and social science This book contains theory and applications of soft computing in engineering health and social and applied sciences Different soft computing techniques such as artificial neural networks fuzzy systems evolutionary algorithms and hybrid systems are discussed It also contains important chapters in machine learning and clustering This book presents a survey of the existing knowledge and also the current state of art development through original new contributions from the researchers This book may be used as a one stop reference book for a broad range of readers worldwide interested in soft computing In each chapter the preliminaries have been presented first and

then the advanced discussion takes place Learners and researchers from a wide variety of backgrounds will find several useful tools and techniques to develop their soft computing skills This book is meant for graduate students faculty and researchers willing to expand their knowledge in any branch of soft computing The readers of this book will require minimum prerequisites of undergraduate studies in computation and mathematics   Soft Computing D. K. Pratihar,2015-06-30 Soft Computing starts with an introduction to soft computing a family consists of many members namely genetic algorithms GAs fuzzy logic FL neural networks NNs and others To realize the need for a non traditional optimization tool like GA one chapter is devoted to explain the principle of traditional optimization The working cycle of a GA is explained in detail The mechanisms of some specialized GAs are then discussed with some appropriate examples The working principles of some other non traditional optimization tools like simulated annealing SA and particle swarm optimization PSO are discussed in detail Multi objective optimization has been dealt in a separate chapter where the working principles of a few approaches are explained Fuzzy sets are introduced before explaining the principle of fuzzy reasoning and clustering The fundamentals of NNs are presented prior to the discussion on various forms of NN The combined techniques such as GA FL GA NN NN FL and GA FL NN are then explained and the last chapter deals with the applications of soft computing in two different fields of research It has been written to fulfill the requirements of a large number of readers belonging to various disciplines of engineering and general sciences The algorithms are discussed with a number of solved numerical examples It will be very much helpful to the students scientists and practicing engineers   Soft Computing and Intelligent Systems Design Fakhreddine O. Karray,Clarence W. De Silva,2004 Traditional artificial intelligence AI techniques are based around mathematical techniques of symbolic logic with programming in languages such as Prolog and LISP invented in the 1960s These are referred to as crisp techniques by the soft computing community The new wave of AI methods seeks inspiration from the world of biology and is being used to create numerous real world intelligent systems with the aid of soft computing tools These new methods are being increasingly taught at the upper end of the curriculum sometimes as an adjunct to traditional AI courses and sometimes as a replacement for them Where a more radical approach is taken and the course is being taught at an introductory level we have recently published Negnevitsky s book Karray and Silva will be suitable for the majority of courses which will be found at an advanced level Karray and de Silva cover the problem of control and intelligent systems design using soft computing techniques in an integrated manner They present both theory and applications including industrial applications and the book contains numerous worked examples problems and case studies Covering the state of the art in soft computing techniques the book gives the reader sufficient knowledge to tackle a wide range of complex systems for which traditional techniques are inadequate   *Soft Computing and its Applications in Business and Economics* Rafik Aziz Aliev,Bijan Fazlollahi,Rashad Rafik Aliev,2012-08-10 Soft Computing and its Applications in Business and Economics or SC BE for short is a work whose importance is hard to exaggerate Authored by leading contributors to soft computing and its

applications SC BE is a sequel to an earlier book by Professors R A Aliev and R R Aliev Soft Computing and Its Applications World Scientific 200l SC BE is a self contained exposition of the foundations of soft computing and presents a vast compendium of its applications to business finance decision analysis and economics One cannot but be greatly impressed by the wide variety of applications applications ranging from use of fuzzy logic in transportation and health case systems to use of a neuro fuzzy approach to modeling of credit risk in trading and application of soft computing to e commerce To view the contents of SC BE in a clearer perspective a bit of history is in order In science as in other realms of human activity there is a tendency to be nationalistic to commit oneself to a particular methodology and relegate to a position of inferiority or irrelevance all alternative methodologies As we move further into the age of machine intelligence and automated reasoning we run into more and more problems which do not lend themselves to solution through the use of our favorite methodology

Applied Soft Computing and Embedded System Applications in Solar Energy Rupendra Kumar Pachauri,Jitendra Kumar Pandey,Abhishek Sharmu,Om Nautiyal,Mangey Ram,2021-05-26 Applied Soft Computing and Embedded System Applications in Solar Energy deals with energy systems and soft computing methods from a wide range of approaches and application perspectives The authors examine how embedded system applications can deal with the smart monitoring and controlling of stand alone and grid connected solar photovoltaic PV systems for increased efficiency Growth in the area of artificial intelligence with embedded system applications has led to a new era in computing impacting almost all fields of science and engineering Soft computing methods implemented to energy related problems regularly face data driven issues such as problems of optimization classification clustering or prediction The authors offer real time implementation of soft computing and embedded system in the area of solar energy to address the issues with microgrid and smart grid projects both renewable and non renewable generations energy management and power regulation They also discuss and examine alternative solutions for energy capacity assessment energy efficiency systems design as well as other specific smart grid energy system applications The book is intended for students professionals and researchers in electrical and computer engineering fields working on renewable energy resources microgrids and smart grid projects Examines the integration of hardware with stand alone PV panels and real time monitoring of factors affecting the efficiency of the PV panels Offers real time implementation of soft computing and embedded system in the area of solar energy Discusses how soft computing plays a huge role in the prediction of efficiency of stand alone and grid connected solar PV systems Discusses how embedded system applications with smart monitoring can control and enhance the efficiency of stand alone and grid connected solar PV systems Explores swarm intelligence techniques for solar PV parameter estimation Dr Rupendra Kumar Pachauri is Assistant Professor Selection Grade in the Department of Electrical and Electronics Engineering University of Petroleum and Energy Studies UPES Dehradun India Dr Jitendra Kumar Pandey is Professor Head of R D in the University of Petroleum and Energy Studies UPES Dehradun India Mr Abhishek Sharma is working as a research scientist in the research and development

department UPES India Dr Om Prakash Nautiyal is working as a scientist in Uttarakhand Science Education Research Centre USERC Department of Information and Science Technology Govt of Uttarakhand Dehradun India Prof Mangey Ram is working as a Research Professor at Graphic Era Deemed to be University Dehradun India **Soft Computing** Pradip Debnath,Oscar Castillo,Poom Kumam,2023 This book explores soft computing techniques in a systematic manner starting from their initial stage to recent developments in this area The book presents a survey of the existing knowledge and the current state of the art development through cutting edge original new contributions from the researchers Soft Computing Recent Advances and Applications in Engineering and Mathematical Sciences presents a survey of the existing knowledge and the current state of the art development through cutting edge original new contributions from the researchers As suggested by the title this book particularly focuses on the recent advances and applications of soft computing techniques in engineering and mathematical sciences Chapter 1 describes the contribution of soft computing techniques towards a new paradigm shift The subsequent chapters present a systematic application of fuzzy logic in mathematical sciences and decision making New research directions are also provided at the end of each chapter The application of soft computing in health sciences and in the modeling of epidemics including the effects of vaccination are also examined Sustainability of green product development optimum design of 3D steel frame digitalization investment analysis in the maritime industry forecasting return rates of individual pension funds are among some of the topics where engineering and industrial applications of soft computing have been studied in the book The readers of this book will require minimum prerequisites of undergraduate studies in computation and mathematics This book is meant for graduate students faculty and researchers who are applying soft computing in engineering and mathematics New research directions are also provided at the end of each chapter **Soft Computing and Its Applications, Volume I** KUMAR S. RAY,2021-03-31 This book will be highly useful to researchers in the area of pattern classification and computer vision as well as for academics and professionals Combining theory and practice the book presents several experimental results all synthetic and real data are provided on a unified platform for pattern classification and object recognition <u>Soft Computing Techniques in Engineering, Health, Mathematical and Social Sciences</u> Pradip Debnath,S. A. Mohiuddine,2021-07-15 Soft computing techniques are no longer limited to the arena of computer science The discipline has an exponentially growing demand in other branches of science and engineering and even into health and social science This book contains theory and applications of soft computing in engineering health and social and applied sciences Different soft computing techniques such as artificial neural networks fuzzy systems evolutionary algorithms and hybrid systems are discussed It also contains important chapters in machine learning and clustering This book presents a survey of the existing knowledge and also the current state of art development through original new contributions from the researchers This book may be used as a one stop reference book for a broad range of readers worldwide interested in soft computing In each chapter the preliminaries have been presented first and

then the advanced discussion takes place Learners and researchers from a wide variety of backgrounds will find several useful tools and techniques to develop their soft computing skills This book is meant for graduate students faculty and researchers willing to expand their knowledge in any branch of soft computing The readers of this book will require minimum prerequisites of undergraduate studies in computation and mathematics *Soft Computing in Interdisciplinary Sciences* S. Chakraverty,2021-11-01 This book meets the present and future needs for the interaction between various science and technology engineering areas on the one hand and different branches of soft computing on the other Soft computing is the recent development about the computing methods which include fuzzy set theory logic evolutionary computation EC probabilistic reasoning artificial neural networks machine learning expert systems etc Soft computing refers to a partnership of computational techniques in computer science artificial intelligence machine learning and some other engineering disciplines which attempt to study model and analyze complex problems from different interdisciplinary problems This as opposed to traditional computing deals with approximate models and gives solutions to complex real life problems Unlike hard computing soft computing is tolerant of imprecision uncertainty partial truth and approximations Interdisciplinary sciences include various challenging problems of science and engineering Recent developments in soft computing are the bridge to handle different interdisciplinary science and engineering problems In recent years the correspondingly increased dialog between these disciplines has led to this new book This is done firstly by encouraging the ways that soft computing may be applied in traditional areas as well as point towards new and innovative areas of applications and secondly by encouraging other scientific disciplines to engage in a dialog with the above computation algorithms outlining their problems to both access new methods as well as to suggest innovative developments within itself *Soft Computing Principles and Integration for Real-Time Service-Oriented Computing* Punit Gupta,Dinesh Kumar Saini,Kashif Zia,2024-03-22 In recent years soft computing techniques have emerged as a successful tool to understand and analyze the collective behavior of service oriented computing software Algorithms and mechanisms of self organization of complex natural systems have been used to solve problems particularly in complex systems which are adaptive ever evolving and distributed in nature across the globe What fits more perfectly into this scenario other than the rapidly developing era of Fog IoT and Edge computing environment Service oriented computing can be enhanced with soft computing techniques embedded inside the Cloud Fog and IoT systems Soft Computing Principles and Integration for Real Time Service Oriented Computing explores soft computing techniques that have wide application in interdisciplinary areas These soft computing techniques provide an optimal solution to the optimization problem using single or multiple objectives The book focuses on basic design principles and analysis of soft computing techniques It discusses how soft computing techniques can be used to improve quality of service in serviceoriented architectures The book also covers applications and integration of soft computing techniques with a service oriented computing paradigm Highlights of the book include A general introduction to soft computing An extensive literature

study of soft computing techniques and emerging trends Soft computing techniques based on the principles of artificial intelligence fuzzy logic and neural networks The implementation of SOC with a focus on service composition and orchestration quality of service QoS considerations security and privacy concerns governance challenges and the integration of legacy systems The applications of soft computing in adaptive service composition intelligent service recommendation fault detection and diagnosis SLA management and security Such principles underlying SOC as loose coupling reusability interoperability and abstraction An IoT based framework for real time data collection and analysis using soft computing

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