

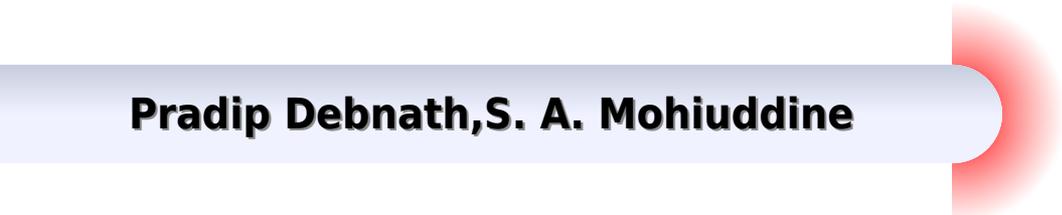
# SOFT COMPUTING

## Applications of Soft Computing



# Soft Computing Techniques And Applications

**Pradip Debnath, S. A. Mohiuddine**



## **Soft Computing Techniques And Applications:**

*Soft Computing in Information Retrieval* Fabio Crestani, Gabriella Pasi, 2013-03-19 Information retrieval IR aims at defining systems able to provide a fast and effective content based access to a large amount of stored information The aim of an IR system is to estimate the relevance of documents to users information needs expressed by means of a query This is a very difficult and complex task since it is pervaded with imprecision and uncertainty Most of the existing IR systems offer a very simple model of IR which privileges efficiency at the expense of effectiveness A promising direction to increase the effectiveness of IR is to model the concept of partially intrinsic in the IR process and to make the systems adaptive i e able to learn the user s concept of relevance To this aim the application of soft computing techniques can be of help to obtain greater flexibility in IR systems

**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

**Soft Computing Techniques and Applications**, 2000 **Soft Computing Techniques in Engineering Applications** Srikanta Patnaik, Baojiang Zhong, 2014-02-22 The Soft Computing techniques which are based on the information processing of biological systems are now massively used in the area of pattern recognition making prediction rather it is an amalgamation of distinct methods that confirms to its guiding principle At present the main aim of soft computing is to exploit the tolerance for imprecision and uncertainty to achieve tractability robustness and low solutions cost The principal constituents of soft computing techniques are probabilistic reasoning fuzzy logic neuro computing genetic algorithms belief networks chaotic systems as well as learning theory This book covers contributions from various authors to demonstrate the use of soft computing techniques in various applications of engineering [Soft Computing Applications in Optimization, Control, and Recognition](#) Patricia Melin, Oscar Castillo, 2012-12-14 Soft computing includes several intelligent computing paradigms like fuzzy logic neural networks and bio inspired optimization algorithms This book describes the application of soft computing techniques to intelligent control pattern recognition and optimization problems The book is

organized in four main parts The first part deals with nature inspired optimization methods and their applications Papers included in this part propose new models for achieving intelligent optimization in different application areas The second part discusses hybrid intelligent systems for achieving control Papers included in this part make use of nature inspired techniques like evolutionary algorithms fuzzy logic and neural networks for the optimal design of intelligent controllers for different kind of applications Papers in the third part focus on intelligent techniques for pattern recognition and propose new methods to solve complex pattern recognition problems The fourth part discusses new theoretical concepts and methods for the application of soft computing to many different areas such as natural language processing clustering and optimization

*Soft Computing Applications* Kanad Ray, Millie Pant, Anirban Bandyopadhyay, 2018-03-29 This book provides a reference guide for researchers scientists and industrialists working in the area of soft computing and highlights the latest advances in and applications of soft computing techniques in multidisciplinary areas Gathering papers presented at the International Conference on Soft Computing Theories and Applications SoCTA 2016 which was held in Jaipur Rajasthan India on December 28 30 2016 it focuses on applying soft computing to solve real life problems arising in various domains from medical and healthcare to supply chain management image processing and cryptanalysis The term soft computing represents an umbrella term for computational techniques like fuzzy logic neural networks and nature inspired algorithms In the past few decades there has been an exponential rise in the application of soft computing techniques to address complex and intricate problems in diverse spheres of life The versatility of these techniques has made them a favourite among scientists and researchers alike

**Soft Computing** Devendra K. Chaturvedi, 2008-08-20 This book is an introduction to some new fields in soft computing with its principal components of fuzzy logic ANN and EA The approach in this book is to provide an understanding of the soft computing field and to work through soft computing using examples It also aims to integrate pseudo code operational summaries and Matlab codes to present computer simulation to include real world applications and to highlight the distinctive work of human consciousness in machine

**Application of Soft Computing Techniques in Mechanical Engineering** Amar Patnaik, Vikas Kukshal, Pankaj Agarwal, Ankush Sharma, Mahavir Choudhary, 2022-12-14 This text covers the latest intelligent technologies and algorithms related to the state of the art methodologies of monitoring and mitigation of mechanical engineering It covers important topics including computational fluid dynamics for advanced thermal systems optimizing performance parameters by Fuzzy logic design of experiments numerical simulation and optimizing flow network by artificial intelligence It will serve as an ideal reference text for graduate students and academic researchers in diverse engineering fields including industrial manufacturing computer mechanical and materials science The book Introduces novel soft computing techniques needed to address sustainable solutions for the issues related to materials and manufacturing process Provides perspectives for the design development and commissioning of intelligent applications Discusses the latest intelligent technologies and algorithms related to the state of the art methodologies of monitoring and mitigation of

sustainable engineering Explores future generation sustainable and intelligent monitoring techniques beneficial for mechanical engineering Covers implementation of soft computing in the various areas of engineering applications This book introduces soft computing techniques in addressing sustainable solutions for the issues related to materials and manufacturing process It will serve as an ideal reference text for graduate students and academic researchers in diverse engineering fields including industrial manufacturing thermal fluid and materials science

**Soft Computing Techniques and Applications** Samarjeet Borah,Ratika Pradhan,Nilanjan Dey,Phalguni Gupta,2020-11-28 Focusing on soft computing techniques and application in various engineering research domains this book presents the state of the art outcomes from ongoing research works being conducted in various research laboratories and educational institutions The included research works deal with estimated models and give resolutions to complex real life issues In the field of evolutionary computing and other domains of applications such as data mining and fuzzy logic soft computing techniques play an incomparable role where it successfully handles contemporary computationally intensive and complex problems that have usually appeared to be inflexible to traditional mathematical methods Comprising the concepts and applications of soft computing with other emerging research domains this book cherishes varieties of modern applications in the fields of natural language processing image processing biomedical engineering communication control systems circuit design etc

**Soft Computing Techniques and Applications** Samarjeet Borah,Ratika Pradhan,Nilanjan Dey,Phalguni Gupta,2020-11-27 Focusing on soft computing techniques and application in various engineering research domains this book presents the state of the art outcomes from ongoing research works being conducted in various research laboratories and educational institutions The included research works deal with estimated models and give resolutions to complex real life issues In the field of evolutionary computing and other domains of applications such as data mining and fuzzy logic soft computing techniques play an incomparable role where it successfully handles contemporary computationally intensive and complex problems that have usually appeared to be inflexible to traditional mathematical methods Comprising the concepts and applications of soft computing with other emerging research domains this book cherishes varieties of modern applications in the fields of natural language processing image processing biomedical engineering communication control systems circuit design etc

*Applied Soft Computing Techniques* Samarjeet Borah,Ratna Raja Kumar Jambi,Sharifah Sakinah Syed Ahmad,Mahendra Prabhakar Deore,2025-07-11 Soft computing techniques have the ability to handle complex uncertain and imprecise information to create usable solutions to convoluted problems or those just too time consuming to solve with current hardware This new book details the use and applications of soft computing technology in several fields exploring the use of these techniques in biomedical applications communication technologies data analytics and applications image processing and natural language processing The chapters in the section on biomedical applications explore soft computing techniques for cancer data analysis depression and mental health analysis heart disease detection etc The editors go on to discuss soft computing in

communication systems looking at graphs design processes and mapping techniques as well as the integration of IoT devices drone technology etc The volume also details how soft computing methodologies can assist in tackling the obstacles associated with signal processing network optimization quality of service and beyond Several chapters discuss the use of soft computing techniques in data compression handling of large scaled heterogenous databases visualization techniques etc Applications of soft computing in image processing are also discussed and cover human face recognition casualty detection traffic sign recognition and predicting soil features using satellite imagery Soft computing techniques in natural language processing consider text to speech signal conversion NLP and speech recognition speech emotion recognition and more This volume will help to facilitate the amalgamation of theoretical principles and practical applications bringing forth possible solutions to complex problems in various domains The book is a welcome resource for researchers students professionals and even for individuals looking for knowledge on soft computing

**Applied Soft Computing Techniques Theoretical Principles and Practical Applications** will help to facilitate the amalgamation of theoretical principles and practical applications bringing forth possible solutions to complex problems in various domains The book is a welcome resource for researchers students professionals and even for individuals looking for knowledge on soft computing

**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 Techniques in Engineering, Health, Mathematical and Social Sciences** Pradip Debnath, S. A. Mohiuddine, 2021 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

**New Soft Computing Techniques for System Modeling, Pattern Classification and Image Processing** Leszek Rutkowski,2004-02-03 Science has made great progress in the twentieth century with the establishment of proper disciplines in the fields of physics computer science molecular biology and many others At the same time there have also emerged many engineering ideas that are interdisciplinary in nature beyond the realm of such orthodox disciplines These include for example artificial intelligence fuzzy logic artificial neural networks evolutionary computation data mining and so on In order to generate new technology that is truly human friendly in the twenty first century integration of various methods beyond specific disciplines is required Soft computing is a key concept for the creation of such human friendly technology in our modern information society Professor Rutkowski is a pioneer in this field having devoted himself for many years to publishing a large variety of original work The present volume based mostly on his own work is a milestone in the development of soft computing integrating various disciplines from the fields of information science and engineering The book consists of three parts the first of which is devoted to probabilistic neural networks Neural excitation is stochastic so it is natural to investigate the Bayesian properties of connectionist structures developed by Professor Rutkowski This new approach has proven to be particularly useful for handling regression and classification problems vi Preface in time varying environments Throughout this book major themes are selected from theoretical subjects that are tightly connected with challenging applications

**Soft Computing Techniques and Applications in Mechanical Engineering** Ram, Mangey,Davim, J. Paulo,2017-12-29 The evolution of soft computing applications has offered a multitude of methodologies and techniques that are useful in facilitating new ways to address practical and real scenarios in a variety of fields In particular these concepts have created significant developments in the engineering field Soft Computing Techniques and Applications in Mechanical Engineering is a pivotal reference source for the latest research findings on a comprehensive range of soft computing techniques applied in various fields of mechanical engineering Featuring extensive coverage on relevant areas such as thermodynamics fuzzy computing and computational intelligence this publication is an ideal resource for students engineers research scientists and academicians involved in soft computing techniques and applications in mechanical engineering areas

[Applications of Soft Computing for the Web](#) Rashid Ali,MM Sufyan Beg,2018-01-08 This book discusses the applications of different soft computing techniques for the

web based systems and services The respective chapters highlight recent developments in the field of soft computing applications from web based information retrieval to online marketing and online healthcare In each chapter author endeavor to explain the basic ideas behind the proposed applications in an accessible format for readers who may not possess a background in these fields This carefully edited book covers a wide range of new applications of soft computing techniques in Web recommender systems Online documents classification Online documents summarization Online document clustering Online market intelligence Web usage profiling Web data extraction Social network extraction Question answering systems Online health care Web knowledge management Multimedia information retrieval Navigation guides User profiles extraction Web based distributed information systems Web security applications Internet of Things Applications and so on The book is aimed for researchers and practitioner who are engaged in developing and applying intelligent systems principles for solving real life problems Further it has been structured so that each chapter can be read independently of the others

Practical Applications of Soft Computing in Engineering Sung-Bae Cho,2001 Ch 1 Automatic detection of microcalcifications in mammograms using a fuzzy classifier A P Drijarkara G Naghdy F Naghdy ch 2 Software deployability control system application of Choquet integral and rough sets James F Peters III Sheela Ramanna ch 3 Predictive fuzzy model for control of an artificial muscle Petar B Petrovic ch 4 Fuzzy supervisory control with fuzzy PID controller and its application to petroleum plants Tetsuji Tani Hiroaki Kobayashi Takeshi Furuhashi ch 5 Genetic algorithm based predictive control for nonlinear processes Seung C Shin Zeungnam Bien ch 6 Indirect neuro control for multivariable nonlinear systems with application to 2 bar load systems Jun Oh Jang Hee Tae Chung ch 7 Evolutionary computation for information retrieval based on user preference Hak Gyoon Kim Sung Bae Cho ch 8 On line tool condition monitoring based on a neurofuzzy intelligent signal feature classification procedure Pan Fu A D Hope G A King ch 9 Feature extraction by self organized fuzzy templates with applications Eiji Uchino Shigeru Nakashima Takeshi Yamakawa ch 10 Inference of self excited vibration in high speed end milling based on fuzzy neural networks Chuanxin Su Junichi Hino Toshio Yoshimura ch 11 Fuzzy logic and neural networks approach a way to improve overall performance of integrated heating systems Evgueniy Entchev ch 12 Application of fuzzy pattern matching and genetic algorithms to rotating machinery diagnosis Jesus M Fernandez Salido Shuta Murakami ch 13 Design and tuning a neurofuzzy power system stabilizer using genetic algorithms Ali Afzalian Derek A Linkens ch 14 Techniques of soft computing for emergency management in a mineral oils deposit Alessandro De Carli Sonia Pisani ch 15 An application of logic programs with soft computing aspects to fault diagnosis in digital circuits Hiroshi Sakai Atsushi Imamoto Akimichi Okuma ch 16 Determination of the motion parameters from the perspective projection of a triangle Myint Myint Sein Hiromitsu Hama

Soft Computing Techniques in Knowledge-based Intelligent Engineering Systems L. C. Jain,1997-10-09 Presented are the theory and applications of soft computing paradigms including knowledge based techniques neural networks fuzzy systems and genetic algorithms in engineering system design The book contains 11

chapters The first four provide an introduction to the knowledge based systems neural networks fuzzy systems and evolutionary computing techniques The last 7 chapters include the applications of knowledge based systems in engineering productivity quality and technology transfer knowledge based systems in real time applications logic grammar in electronic circuit representation applications of neural networks evolution of neural structure based on cellular automata application of ART and ARTMAP in self organising learning recognition and production and applications of fuzzy systems

*Advanced Soft Computing Techniques in Data Science, IoT and Cloud Computing* Sujata Dash, Subhendu Kumar Pani, Ajith Abraham, Yulan Liang, 2021-11-05 This book plays a significant role in improvising human life to a great extent The new applications of soft computing can be regarded as an emerging field in computer science automatic control engineering medicine biology application natural environmental engineering and pattern recognition Now the exemplar model for soft computing is human brain The use of various techniques of soft computing is nowadays successfully implemented in many domestic commercial and industrial applications due to the low cost and very high performance digital processors and also the decline price of the memory chips This is the main reason behind the wider expansion of soft computing techniques and its application areas These computing methods also play a significant role in the design and optimization in diverse engineering disciplines With the influence and the development of the Internet of things IoT concept the need for using soft computing techniques has become more significant than ever In general soft computing methods are closely similar to biological processes than traditional techniques which are mostly based on formal logical systems such as sentential logic and predicate logic or rely heavily on computer aided numerical analysis Soft computing techniques are anticipated to complement each other The aim of these techniques is to accept imprecision uncertainties and approximations to get a rapid solution However recent advancements in representation soft computing algorithms fuzzy logic evolutionary computation machine learning and probabilistic reasoning generate a more intelligent and robust system providing a human interpretable low cost approximate solution Soft computing based algorithms have demonstrated great performance to a variety of areas including multimedia retrieval fault tolerance system modelling network architecture Web semantics big data analytics time series biomedical and health informatics etc Soft computing approaches such as genetic programming GP support vector machine firefly algorithm SVM FFA artificial neural network ANN and support vector machine wavelet SVM Wavelet have emerged as powerful computational models These have also shown significant success in dealing with massive data analysis for large number of applications All the researchers and practitioners will be highly benefited those who are working in field of computer engineering medicine biology application signal processing and mechanical engineering This book is a good collection of state of the art approaches for soft computing based applications to various engineering fields It is very beneficial for the new researchers and practitioners working in the field to quickly know the best performing methods They would be able to compare different approaches and can carry forward their research in the most important area of research which has direct

impact on betterment of the human life and health This book is very useful because there is no book in the market which provides a good collection of state of the art methods of soft computing based models for multimedia retrieval fault tolerance system modelling network architecture Web semantics big data analytics time series and biomedical and health informatics

Soft Computing Mangey Ram, Suraj B. Singh, 2020-08-24 Soft computing is used where a complex problem is not adequately specified for the use of conventional math and computer techniques Soft computing has numerous real world applications in domestic commercial and industrial situations This book elaborates on the most recent applications in various fields of engineering

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