Principles of
Soft Computing

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package Application case studies on soft computing techniques on emerging fields Various hybrid soft computing techniques New in this edition Certain topics have been added such as Fundamentals of Genetic Algorithms Genetic Modeling Integration of Neural Networks Fuzzy Logic and Genetic Algorithms A new chapter Hybrid Soft Computing Techniques has been added bringing the advantages of combining individual techniques 5 Sample Question Papers have been added at the end of the book Accompanying CD contains Power point presentations Source Codes for Soft Computing Techniques in C MATLAB Source Code Programs About The Book In this book the basic concepts of soft computing are dealt in detail with the relevant information and knowledge available for understanding the computing process The various neural network concepts are explained with examples highlighting the difference between various architectures Fuzzy logic techniques have been clearly dealt with suitable examples Genetic algorithm operators and the various classifications have been discussed in lucid manner so that a beginner can understand the concepts with minimal effort The book can be used as a handbook as well as a guide for students of all engineering disciplines soft computing research scholars management sector operational research area computer applications and for various professionals who work in this area *Soft Computing* Samir Roy,Udit Chakraborty,2013 Soft computing is a branch of computer science that deals with a family of methods that imitate human intelligence This is done with the goal of creating tools that will contain some human like capabilities such as learning reasoning and decision making This book covers the entire gamut of soft computing including fuzzy logic rough sets artificial neural networks and various evolutionary algorithms It offers a learner centric approach where each new concept is introduced with carefully designed examples instances to train the learner <u>Soft Computing and Its Applications</u> Rafik Aziz ogly Aliev,R. R. Aliev,2001 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 *Real Life Applications of Soft Computing* Anupam Shukla,Ritu Tiwari,Rahul Kala,2010-05-21 Rapid advancements in the application of soft computing tools and techniques have proven valuable in the development of highly scalable systems and resulted in brilliant applications including those in biometric identification interactive voice response systems and data mining Although many resources on the subject adequately cover the theoreti <u>Soft Computing Techniques for Engineering Optimization</u> Kaushik Kumar,Supriyo Roy,J. Paulo Davim,2019-02-21 This book covers the issues related to optimization of engineering and management problems using soft computing techniques with an industrial outlook It covers a broad area related to real life complex decision making problems using a heuristics approach It also explores a wide perspective and future directions in industrial engineering research on a global platform scenario The book highlights

the concept of optimization presents various soft computing techniques offers sample problems and discusses related software programs complete with illustrations Features Explains the concept of optimization and relevance to soft computing techniques towards optimal solution in engineering and management Presents various soft computing techniques Offers problems and their optimization using various soft computing techniques Discusses related software programs with illustrations Provides a step by step tutorial on how to handle relevant software for obtaining the optimal solution to various engineering problems **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 in Engineering** Jamshid Ghaboussi,2018-05-11 Soft computing methods such as neural networks and genetic algorithms draw on the problem solving strategies of the natural world which differ fundamentally from the mathematically based computing methods normally used in engineering Human brains are highly effective computers with capabilities far beyond those of the most sophisticated electronic computers The soft computing methods they use can solve very difficult inverse problems based on reduction in disorder This book outlines these methods and applies them to a range of difficult engineering problems including applications in computational mechanics earthquake engineering and engineering design Most of these are difficult inverse problems especially in engineering design and are treated in depth 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 in Case Based Reasoning Sankar Kumar Pal,Tharam S. Dillon,Daniel S. Yeung,2012-12-06 Soft Computing in Case Based Reasoning demonstrates how various soft computing tools can be applied to design and develop methodologies and systems with case based reasoning for real life decision making or recognition problems Comprising contributions from experts from all over the world it Provides an introduction to CBR and soft computing and the relevance of their integration Evaluates the strengths and weaknesses of CBR in its current form Presents recent developments and significant applications in domains such as data mining medical diagnosis knowledge based expert systems banking and forensic investigation Addresses new information on developing intelligent systems This book will be of particular interest to graduate students and researchers in computer science electrical engineering and information technology but it will also be of interest to researchers and practitioners in the fields of systems design pattern recognition and data mining 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 **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 Approach for Mathematical Modeling of Engineering Problems* Ali Ahmadian,Soheil Salahshour,2021-09-02 This book describes different mathematical modeling and soft computing techniques used to solve practical engineering problems It gives an overview of

the current state of soft computing techniques and describes the advantages and disadvantages of soft computing compared to traditional hard computing techniques Through examples and case studies the editors demonstrate and describe how problems with inherent uncertainty can be addressed and eventually solved through the aid of numerical models and methods The chapters address several applications and examples in bioengineering science drug delivery solving inventory issues Industry 4 0 augmented reality and weather forecasting Other examples include solving fuzzy shortest path problems by introducing a new distance and ranking functions Because in practice problems arise with uncertain data and most of them cannot be solved exactly and easily the main objective is to develop models that deliver solutions with the aid of numerical methods This is the reason behind investigating soft numerical computing in dynamic systems Having this in mind the authors and editors have considered error of approximation and have discussed several common types of errors and their propagations Moreover they have explained the numerical methods along with convergence and consistence properties and characteristics as the main objectives behind this book involve considering discussing and proving related theorems within the setting of soft computing This book examines dynamic models and how time is fundamental to the structure of the model and data as well as the understanding of how a process unfolds Discusses mathematical modeling with soft computing and the implementations of uncertain mathematical models Examines how uncertain dynamic systems models include uncertain state uncertain state space and uncertain state s transition functions Assists readers to become familiar with many soft numerical methods to simulate the solution function s behavior This book is intended for system specialists who are interested in dynamic systems that operate at different time scales The book can be used by engineering students researchers and professionals in control and finite element fields as well as all engineering applied mathematics economics and computer science interested in dynamic and uncertain systems Ali Ahmadian is a Senior Lecturer at the Institute of IR 4 0 The National University of Malaysia Soheil Salahshour is an associate professor at Bahcesehir University **Soft Computing in Smart Manufacturing** Tatjana Sibalija,J. Paulo Davim,2021-12-06 This book aims at addressing the challenges of contemporary manufacturing in Industry 4 0 environment and future manufacturing aka Industry 5 0 by implementing soft computing as one of the major sub fields of artificial intelligence It contributes to development and application of the soft computing systems including links to hardware software and enterprise systems in resolving modern manufacturing issues in complex highly dynamic and globalized industrial circumstances It embraces heterogeneous complementary aspects such as control monitoring and modeling of different manufacturing tasks including intelligent robotic systems and processes addressed by various machine learning and fuzzy techniques modeling and parametric optimization of advanced conventional and non conventional eco friendly manufacturing processes by using machine learning and evolutionary computing techniques cybersecurity framework for Internet of Things based systems addressing trustworthiness and resilience in machine to machine and human machine collaboration static and dynamic digital twins

integration and synchronization in a smart factory environment STEP NC technology for a smart machine vision system and integration of Open CNC with Service Oriented Architecture for STEP NC monitoring system in a smart manufacturing Areas of interest include but are not limited to applications of soft computing to address the following dynamic process system modeling and simulation dynamic process system parametric optimization dynamic planning and scheduling smart predictive maintenance intelligent and autonomous systems improved machine cognition effective digital twins integration human machine collaboration robots and cobots *Soft Computing in Software Engineering* Ernesto Damiani,Mauro Madravio,2012-12-06 Soft computing is playing an increasing role in the study of complex systems in science and engineering There is a large spectrum of successful applications of soft computing in very different applications domains such as aerospace communication consumer appliances electric power systems process engineering transportation and manufacturing automation and robotics It has taken a while to bring the early ideas of soft computing to an area and a discipline that seems to be more than appropriate for that Here it is This book studies SOFT computing in SOFTware engineering environment The book is HARD in terms of its results It covers a range of core topics from software engineering that are soft from its very nature selection of components software design software reuse software cost estimation and software processes Soft computing differs from conventional hard computing in its ability to be tolerant of imprecision uncertainty partial truth and approximation The guiding principle of soft computing is Exploit the tolerance for imprecision uncertainty partial truth and approximation to achieve tractability robustness and low solution cost The role model for soft computing is the human mind This seems to be a natural fit with software engineering a human based development activity based on sound engineering principles A recent survey by researchers reveals that Software Engineering research tends to be quite self contained not relying on other disciplines for its thinking **Soft Computing Methods for Practical Environment Solutions** Marcos Gestal Pose,Daniel Rivero Cebrián,2010 Nature provides inspiration and guidance in the creation of techniques applications and new technologies in the fields of artificial intelligence and soft computing This book presents various practical applications of soft computing techniques in real world situations and problems aiming to show the enormous potential of such techniques in solving all kinds of problems It explores the latest advances in these techniques in an extensive state of the art review and a vast theoretical study Ideal for students studying AI and researchers familiarizing themselves with such techniques it offers recent and novel applications helping expand and explore new areas of research **Soft Computing Methods for Practical Environment Solutions: Techniques and Studies** Gestal Pose, Marcos,Rivero Cebrián, Daniel,2010-05-31 This publication presents a series of practical applications of different Soft Computing techniques to real world problems showing the enormous potential of these techniques in solving problems Provided by publisher *Soft Computing* ,2005 *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

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