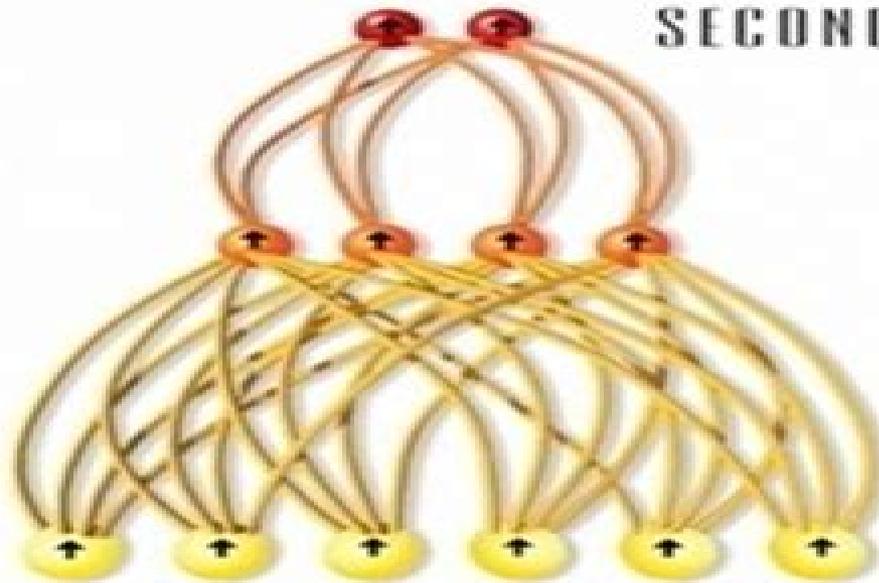# PRINCIPLES OF
# SOFT COMPUTING

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**Anupam Shukla,Ritu Tiwari,Rahul Kala**

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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 **Computational Intelligent Security in Wireless Communications** Suhel Ahmed Khan,Rajeev Kumar,Omprakash Kaiwartya,Raees Ahmad Khan,Mohammad Faisal,2023-03-21 Wireless network security research is multidisciplinary in nature including data analysis economics mathematics forensics information technology and computer science This text covers cutting edge research in computational intelligence systems from diverse fields on the complex subject of wireless communication security It discusses important topics including computational intelligence in wireless network and communications artificial intelligence and wireless communication security security risk scenarios in communications security resilience metrics and their measurements data analytics of cyber crimes modeling of wireless communication security risks advances in cyber threats and computer crimes adaptive and learning techniques for secure estimation and control decision support systems fault tolerance and diagnosis cloud forensics and information systems and intelligent information retrieval The book Discusses computational algorithms for system modeling and optimization in security perspective Focuses on error prediction and fault diagnosis through intelligent information retrieval via wireless technologies Explores a group of practical research problems where security experts can help develop new data driven methodologies Covers application on artificial intelligence and wireless communication security risk perspective The text is primarily written for senior undergraduate graduate students and researchers in the fields of electrical engineering electronics and communication engineering and computer engineering The text comprehensively discusses wide range of wireless communication techniques with emerging computational intelligent trends to help readers understand the role of wireless technologies in applications touching various spheres of human life with the help of hesitant fuzzy sets based computational modeling It will be a valuable resource for senior undergraduate graduate students and researchers in the fields of electrical engineering electronics and communication engineering and

computer engineering **Bio-Inspired Computational Algorithms and Their Applications** Shangce Gao,2012-03-07 Bio inspired computational algorithms are always hot research topics in artificial intelligence communities Biology is a bewildering source of inspiration for the design of intelligent artifacts that are capable of efficient and autonomous operation in unknown and changing environments It is difficult to resist the fascination of creating artifacts that display elements of lifelike intelligence thus needing techniques for control optimization prediction security design and so on Bio Inspired Computational Algorithms and Their Applications is a compendium that addresses this need It integrates contrasting techniques of genetic algorithms artificial immune systems particle swarm optimization and hybrid models to solve many real world problems The works presented in this book give insights into the creation of innovative improvements over algorithm performance potential applications on various practical tasks and combination of different techniques The book provides a reference to researchers practitioners and students in both artificial intelligence and engineering communities forming a foundation for the development of the field **Genetic Algorithms** ,2024-01-17 In this edition of Genetic Algorithms Theory Design and Programming we present a series of scientific contributions that delve into the intricate theoretical foundations and practical nuances of genetic algorithms GAs Beyond the academic realm GAs have demonstrated profound applications in societal decision making and engineering optimization showcased through real world examples and case studies A dedicated section on programming principles offers a thorough guide for implementing GAs across diverse languages This edition tailored for researchers and academics serves as a testament to the scientific advancements within the field inviting readers to explore the nuanced journey from theoretical constructs to pragmatic applications in the dynamic landscape of GAs **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 **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 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 and Its Applications** 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 *Soft Computing Techniques for Engineering Optimization* 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 **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 Principles of Soft Computing S. N. Sivanandam,S. N. Deepa,2013 **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 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 for Problem Solving* Manoj Thakur,Samar Agnihotri,Bharat Singh Rajpurohit,Millie Pant,Kusum Deep,Atulya K. Nagar,2023-03-01 This book provides an insight into the 11th International Conference on Soft Computing for Problem Solving SocProS 2022 This international conference is a joint technical collaboration of the Soft Computing Research Society and the Indian Institute of Technology Mandi This book presents the latest achievements and innovations in the

interdisciplinary areas of Soft Computing Machine Learning and Data Science It brings together the researchers engineers and practitioners to discuss thought provoking developments and challenges in order to select potential future directions It covers original research papers in the areas including but not limited to algorithms artificial neural network deep learning statistical methods genetic algorithm and particle swarm optimization and applications data mining and clustering computer vision medical and healthcare finance data envelopment analysis business and forecasting applications This book is beneficial for young as well as experienced researchers dealing across complex and intricate real world problems for which finding a solution by traditional methods is a difficult task **Soft Computing** L. Fortuna,G.. Rizzotto,M. Lavorgna,G. Nunnari,M.G. Xibilia,Riccardo Caponetto,2012-03-26 The book presents a clear understanding of a new type of computation system the Cellular Neural Network CNN which has been successfully applied to the solution of many heavy computation problems mainly in the fields of image processing and complex partial differential equations The text describes how CNN will improve the soft computation toolbox and examines the many applications of soft computing to complex systems *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 **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** ,2005

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