

Solution Of Soft Computing Book S

Sivanandam

Soft Computing Techniques for Engineering Optimization

Kaushik Kumar 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 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.

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.

Advanced Soft Computing Techniques in Data Science, IoT and Cloud Computing

Sujata Dash 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 Samir Roy
2013 Soft computing is a

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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 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.

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 Techniques in Engineering Applications
Srikanta Patnaik 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 & planning, as well as acting on the environment. Ideally speaking, soft computing is not a subject of homogeneous concepts and techniques; 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 Case Based Reasoning Sankar Kumar Pal
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 Mangey Ram

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.

Soft Computing in Industrial Applications Yukinori Suzuki

2000 This book contains a selection of papers that were initially presented at the 4th On-Line World Conference on Soft Computing in Industrial Applications that was held in September 1999. Soft

Computing provides various methodologies for developing intelligent systems that offer competitive solutions to real world problems. This book is comprised of a unique collection of papers that provide a comprehensive overview of state-of-the-art-theory and successful industrial applications of soft computing around the world. It is written by some of the leading researchers in this field. This

book is aimed at researchers and professional engineers who are engaged in developing intelligent systems as well as graduate students in science and engineering.

Computational Intelligent Security in Wireless

Communications Suhel Ahmed Khan 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.

PRINCIPLES OF SOFT COMPUTING (With CD)

S.N.Sivanandam & S.N.Deepa
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Research· Management Sector
Special Features: Dr. S. N.
Sivanandam has published 12
books· He has delivered around
150 special lectures of
different specialization in
Summer/Winter school and
also in various Engineering
colleges· He has guided and co

guided 30 PhD research works and at present 9 PhD research scholars are working under him· The total number of technical publications in International/National Journals/Conferences is around 700· He has also received Certificate of Merit 2005-2006 for his paper from The Institution of Engineers (India)· He has chaired 7 International Conferences and 30 National Conferences. He is a member of various professional bodies like IE (India), ISTE, CSI, ACS and SSI. He is a technical advisor for various reputed industries and engineering institutions· His research areas include Modeling and Simulation, Neural Networks, Fuzzy Systems and Genetic Algorithm, Pattern Recognition, Multidimensional system analysis, Linear and Nonlinear control system, Signal and Image processing, Control System, Power system, Numerical methods, Parallel Computing, Data Mining and Database Security About The Book: This book is meant for a wide range of readers who

wish to learn the basic concepts of soft computing. It can also be helpful for programmers, researchers and management experts who use soft computing techniques. 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.

Developments in Soft Computing Robert John
2013-03-20 Soft Computing has come of age. In particular, Artificial Neural Networks, Fuzzy Logic and Evolutionary Computing now play an important role in many domains where traditional

techniques have been found wanting. As this volume confirms, hybrid solutions that combine more than one of the Soft Computing approaches are particularly successful in many problem areas. This volume contains papers presented at the International Conference on Recent Advances in Soft Computing 2000 at De Montfort University in Leicester. The contributions cover both theoretical developments and practical applications in the various areas of Soft Computing.

Handbook of Research on Novel Soft Computing Intelligent Algorithms: Theory and Practical Applications Vasant, Pandian M. 2013-08-31 "This book explores emerging technologies and best practices designed to effectively address concerns inherent in properly optimizing advanced systems, demonstrating applications in areas such as bio-engineering, space exploration, industrial informatics, information security, and nuclear and renewable energies"--Provided

by publisher.

Soft Computing Andrea Tettamanzi 2013-04-17 Soft computing encompasses various computational methodologies, which, unlike conventional algorithms, are tolerant of imprecision, uncertainty, and partial truth. Soft computing technologies offer adaptability as a characteristic feature and thus permit the tracking of a problem through a changing environment. Besides some recent developments in areas like rough sets and probabilistic networks, fuzzy logic, evolutionary algorithms, and artificial neural networks are core ingredients of soft computing, which are all bio-inspired and can easily be combined synergetically. This book presents a well-balanced integration of fuzzy logic, evolutionary computing, and neural information processing. The three constituents are introduced to the reader systematically and brought together in differentiated combinations step by step. The text was developed from

courses given by the authors and offers numerous illustrations as [Introduction to Fuzzy Logic using MATLAB](#) S.N. Sivanandam 2006-10-28 Fuzzy Logic, at present is a hot topic, among academicians as well various programmers. This book is provided to give a broad, in-depth overview of the field of Fuzzy Logic. The basic principles of Fuzzy Logic are discussed in detail with various solved examples. The different approaches and solutions to the problems given in the book are well balanced and pertinent to the Fuzzy Logic research projects. The applications of Fuzzy Logic are also dealt to make the readers understand the concept of Fuzzy Logic. The solutions to the problems are programmed using MATLAB 6.0 and the simulated results are given. The MATLAB Fuzzy Logic toolbox is provided for easy reference.

PRINCIPLES OF SOFT COMPUTING, 2ND ED (With CD) S. N. Sivanandam 2011
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Special Features:

- Detailed explanation of soft computing concepts.
- Study on various artificial neural network architecture.
- Description on fuzzy logic techniques.
- Introduction to genetic algorithm and its types for solving optimization problems.
- Numerous artificial neural network, fuzzy logic and genetic algorithm problems.
- Implementation of soft computing techniques using C and C++.
- Simulated solutions for soft computing concepts using MATLAB 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:
 - ü Fundamentals of Genetic Algorithms
 - ü Genetic Modeling
 - ü 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.

Real Life Applications of Soft Computing Anupam Shukla 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

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