
Soft Computing Shivani

Soft Computing and Its Applications

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Recent Developments and the New Direction in Soft-Computing Foundations and Applications

Soft Computing Techniques in Engineering, Health, Mathematical and Social Sciences

Soft Computing Techniques in Engineering Applications

Applications of Soft Computing for the Web

Fundamentals of Soft Computing and Intelligent System

Soft Computing Methods for System Dependability

FUNDAMENTAL OF SOFT COMPUTING

Soft Computing Applications in Industry

PRINCIPLES OF SOFT COMPUTING (With CD)

Concepts of Soft Computing

Soft Computing and Industry

Soft Computing and its Applications in Business and Economics

Soft Computing for Data Analytics, Classification Model, and Control

Soft Computing and Intelligent Systems
Soft Computing in Data Analytics
Soft Computing for Problem Solving
Soft Computing for Problem Solving
Advanced Soft Computing Techniques in Data Science, IoT and Cloud Computing
Soft Computing Applications in Business
Soft Computing
Soft Computing in Interdisciplinary Sciences
Soft Computing
Soft Computing Applications
Soft Computing: State of the Art Theory and Novel Applications
Soft Computing
Soft Computing
Soft Computing in Software Engineering
PRINCIPLES OF SOFT COMPUTING, 2ND ED (With CD)
Applications and Science in Soft Computing
Soft Computing in Ontologies and Semantic Web
Soft Computing
Soft Computing for Problem Solving
Soft Computing: Theories and Applications

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Soft Computing: Theories and Applications

Applied Soft Computing Technologies: The Challenge of Complexity

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Soft Computing and Its Applications

Springer Science & Business Media

The book covers the theory and application of soft computing techniques namely; neural networks, fuzzy logic, evolutionary computing and complex systems. The book is a collection of selected, edited papers presented at the 4th conference RACS Recent Advances in Soft Computing held in Nottingham, December 2002. It provides the latest

developments in applications of soft computing techniques as well as advances in theoretical aspects of soft computing.

Soft Computing BPB Publications

This volume presents the proceedings of the 9th Online World Conference on Soft Computing in Industrial Applications, held on the World Wide Web in 2004. It includes lectures, original papers and tutorials presented during the conference. The book brings together outstanding research and developments in soft computing, including evolutionary computation, fuzzy logic, neural

networks, and their fusion, and its applications in science and technology. Soft Computing Springer Science & Business Media

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 conforms 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.

Recent Developments and the New Direction in Soft-Computing Foundations and Applications Springer Nature

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 Techniques in Engineering, Health, Mathematical and Social Sciences

Springer Nature Market_Desc: · B. Tech (UG) students of CSE, IT, ECE· College Libraries· Research Scholars· Operational 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.

Soft Computing Techniques in Engineering Applications Springer Nature

This book covers in a great depth the fast growing topic of tools, techniques

and applications of soft computing (e.g., fuzzy logic, genetic algorithms, neural networks, rough sets, Bayesian networks, and other probabilistic techniques) in the ontologies and Semantic Web. How components of the Semantic Web (like the RDF, Description Logics, ontologies) can be covered with a soft computing focus is shown. The book aims to provide a single account of current studies in soft computing approaches to the ontologies and the Semantic Web. The objective of the book is to provide the state of the art information to researchers, practitioners, and graduate students of the Web intelligence, and at the same time serving the information technology professional faced with non-traditional applications that make the application of

conventional approaches difficult or impossible.

Applications of Soft Computing for the Web Springer

This book is a tribute to Lotfi A. Zadeh, the father of fuzzy logic, on the occasion of his 90th Birthday. The book gathers original scientific contributions written by top scientists and presenting the latest theories, applications and new trends in the fascinating and challenging field of soft computing.

Fundamentals of Soft Computing and Intelligent System Walter de Gruyter GmbH & Co KG

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 Methods for System Dependability Springer Science & Business Media

The field of soft computing is emerging from the cutting edge research over the last ten years devoted to fuzzy engineering and genetic algorithms. The subject is being called soft computing and computational intelligence. With acceptance of the research fundamentals in these important areas, the field is expanding into direct applications through engineering and systems science. This book cover the fundamentals of this emerging filed, as well as direct applications and case studies. There is a need for practicing

engineers, computer scientists, and system scientists to directly apply "fuzzy" engineering into a wide array of devices and systems.

FUNDAMENTAL OF SOFT COMPUTING Elsevier

Provides the basic concepts and engineering applications of soft computing. It includes the basics of soft computing, the use, applications, advantages and disadvantages of neural networks, the basic concepts of supervised learning and the advantages of unsupervised learning and genetic algorithms and fuzzy logic.

Soft Computing Applications in Industry Springer

Offers an introduction to soft computing, a family consisting of many members, namely Genetic Algorithms (GAs), Fuzzy

Logic (FL), Neural Networks (NNs) and others. In this book, the working cycle of a GA is explained in detail. It discusses the mechanisms of some specialized Gas with examples.

**PRINCIPLES OF SOFT COMPUTING
(With CD)** Springer

This two-volume book presents the outcomes of the 8th International Conference on Soft Computing for Problem Solving, SocProS 2018. This conference was a joint technical collaboration between the Soft Computing Research Society, Liverpool Hope University (UK), and Vellore Institute of Technology (India), and brought together researchers, engineers and practitioners to discuss thought-provoking developments and challenges in order to select potential future

directions. The book highlights the latest advances and innovations in the interdisciplinary areas of soft computing, including original research papers on algorithms (artificial immune systems, artificial neural networks, genetic algorithms, genetic programming, and particle swarm optimization) and applications (control systems, data mining and clustering, finance, weather forecasting, game theory, business and forecasting applications). It offers a valuable resource for both young and experienced researchers dealing with complex and intricate real-world problems that are difficult to solve using traditional methods.

Concepts of Soft Computing CRC Press

This two-volume book provides an insight into the 10th International

Conference on Soft Computing for Problem Solving (SocProS 2020). This international conference is a joint technical collaboration of Soft Computing Research Society and Indian Institute of Technology Indore. The book presents the latest achievements and innovations in the interdisciplinary areas of soft computing. 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 immune system, artificial neural network, genetic algorithm, genetic programming and particle swarm optimization) and applications (control systems, data

mining and clustering, finance, weather forecasting, game theory, business and forecasting applications). The book will be 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 and Industry Springer Nature

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 and its Applications in Business and Economics Springer

This book illustrates the impact of soft computing techniques on software engineering research and practices dealing with a range of novel methods reshaping the software development process. Specifically, it is shown how Software Engineering tasks such as reuse-oriented classification (e.g. components' repositories), software diagnostic (e.g. bug detection and correction), effort prediction (e.g. project costs and time estimation), planning (e.g. project scheduling) and others can be appropriately handled by means of soft computing techniques. The book is a valuable reference for practitioners as well as an updated resource of ongoing

interdisciplinary research in Soft Computing in Software Engineering.

Soft Computing for Data Analytics, Classification Model, and Control

Springer Science & Business Media

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.

Soft Computing and Intelligent Systems John Wiley & Sons

Description: This book is going to be the first well organized book for soft computing, including all the three major constituents or aspect of soft computing (neural networks, fuzzy logic and evolutionary computation), and hopefully will be proved beneficial for both kind of people; those striving to gain knowledge and those striving to score grades. The book is comprised of each and every topic of soft computing is a vast field of artificial intelligence with very much exploration to real time problems, especially regarding the quench of decision making and automation in the leading AI industries. Key Features: Comprehensive coverage of

various aspects of soft computing concepts. Artificial intelligence, Neuro computing, Fuzzy logic Evolutionary computation. Strictly in accordance for the syllabus covered under UG, PG, and Doctoral courses. (B.E. / B. Tech./ MCA/ M. Tech/ Research Scholars) Simple language, crystal clear approach, straight forward comprehensible presentation. The concepts are duly supported by several examples. Important question papers for every chapters. Table of contents: Chapter 1: Introduction to Neuro-computing Chapter 2: Training the Neural networks Chapter 3: The unsupervised networks Chapter 4: The fuzzy logic Chapter 5: The Evolutionary computation Chapter 6: Few Auxiliary algorithms

Soft Computing in Data Analytics
Springer

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 for Problem Solving

John Wiley & Sons

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 for Problem Solving
Springer

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.

Best Sellers - Books :

- [How To Catch A Mermaid By Adam Wallace](#)
- [Never Never: A Romantic Suspense Novel Of Love And Fate By Colleen Hoover](#)
- [Harry Potter Paperback Box Set \(books 1-7\)](#)
- [The Complete Summer I Turned Pretty Trilogy \(boxed Set\): The Summer I Turned Pretty; It's Not Summer Without You; We'll Always Have Summer By Jenny Han](#)
- [The Inmate: A Gripping Psychological Thriller](#)
- [Hello Beautiful \(oprah's Book Club\): A Novel](#)

- [My Butt Is So Christmassy! By Dawn Mcmillan](#)
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