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Quantitative Logic and Soft Computing

Advances in Soft Computing

Hybrid Soft Computing Approaches

Developments in Soft Computing

Soft Computing and Its Applications

Fuzzy Logic and Soft Computing

Fuzzy Linear Programming: Solution Techniques
and Applications

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SWANSON ZAYNE

Soft Computing Based Modeling in Intelligent Systems

Springer
This concise but comprehensive textbook reviews the most popular neural-network methods and their associated techniques. Each chapter provides state-of-the-art descriptions of important major

research results of the respective neural-network methods. A range of relevant computational intelligence topics, such as fuzzy logic and evolutionary algorithms – powerful tools for neural-network learning – are introduced. The systematic survey of neural-network models and exhaustive references list will point readers toward topics for future

research. The algorithms outlined also make this textbook a valuable reference for scientists and practitioners working in pattern recognition, signal processing, speech and image processing, data analysis and artificial intelligence. *Soft Computing in Case Based Reasoning* Springer Science & Business Media
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.

Soft Computing
Springer
Science &

Business Media
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 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. *Soft Computing in Smart Manufacturing* Springer Science & Business Media
The book provides a sample of research on the innovative theory and applications of soft computing paradigms. The idea of Soft Computing was initiated in 1981 when Professor Zadeh

published his first paper on soft data analysis and constantly evolved ever since. Professor Zadeh defined Soft Computing as the fusion of the fields of fuzzy logic (FL), neural network theory (NN) and probabilistic reasoning (PR), with the latter subsuming belief networks, evolutionary computing including DNA computing, chaos theory and parts of learning

theory into one multidisciplinary system. As Zadeh said the essence of soft computing is that unlike the traditional, hard computing, soft computing is aimed at an accommodation with the pervasive imprecision of the real world. Thus, the guiding principle of soft computing is to exploit the tolerance for imprecision, uncertainty and partial truth to achieve

tractability, robustness, low solution cost and better rapport with reality. In the final analysis, the role model for soft computing is the human mind. We hope that the reader will share our excitement and find our volume both useful and inspiring. *Soft Computing Agents* Springer
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. **Soft Computing** Springer 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 *Soft Computing Principles and Integration for Real-Time Service-Oriented Computing* World Scientific Publishing Company Technology in today's world has continued to develop into multifaceted structures. The performance of computers, specifically, has significantly increased leading to

various and complex problems regarding the dependability of these systems. Recently, solutions for these issues have been based on soft computing methods; however, there lacks a considerable amount of research on the applications of these techniques within system dependability. *Soft Computing Methods for System Dependability* is a collection of innovative

research on the applications of these processing techniques for solving problems within the dependability of computer system performance. This book will feature comparative experiences shared by researchers regarding the development of these technological solutions. While highlighting topics including evolutionary computing, chaos theory, and artificial

neural networks, this book is ideally designed for researchers, data scientists, computing engineers, industrialists, students, and academicians in the field of computer science. *Quantitative Logic and Soft Computing* Springer 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 heterogeneou

s 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.

Advances in Soft Computing

Springer Science & Business Media
Admittedly, the notion “intelligence or intelligent computing” has been around us for several

decades, implicitly indicating any non-conventional methods of solving complex system problems such as expert systems and intelligent control techniques that mimic human skill and replace human operators for automation. Various kinds of intelligent methods have been suggested, phenomenological or ontological, and we have been witnessing

quite successful applications. On the other hand, “Soft Computing Techniques” is the concept coined by Lotfi Zadeh, referring to “a set of approaches of computing which parallels the remarkable ability of the human mind to reason and learn in an environment of uncertainty, imprecision and partial truth.” Such a notion is well contrasted with the conventional binary logic based hard c-

puting and has been effectively utilized with the guiding principle of “exploiting the tolerance for uncertainty, imprecision and partial truth to achieve tractability, - bustness and low solution cost. ” The soft computing techniques are often employed as the technical entities in a tool box with tools being FL, ANN, Rough Set, GA etc. Based on one’s intuition and experience, an engineer can

build and realize hum-like systems by smartly mixing proper technical tools effectively and ef?ciently in a wide range of ?elds. For some time, the soft computing techniques are also referred to as intelligent computing tools.

Hybrid Soft Computing Approaches

World Scientific 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. **Developmen ts in Soft**

Computing the subject implemented.
Pearson adequately
Education cover the
Rapid theoretic
advancements concepts, few
in the provide clear
application of insight into
soft practical
computing application.
tools and Filling this
techniques need, Real
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applications, technology
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biometric n. While these
identification, systems
interactive initially seem
voice complex, the
response authors
systems, and clearly
data mining. demonstrate
Although how they can
many be modeled,
resources on designed, and

Written in a
manner that
makes it
accessible to
novices, the
book begins
by covering
the theoretical
foundations of
soft
computing. It
supplies a
concise
explanation of
various
models,
principles,
algorithms,
tools, and
techniques,
including
artificial
neural
networks,
fuzzy systems,
evolutionary
algorithms,
and hybrid
algorithms.
Supplying in-
depth

exposure to real life systems, the text provides: Multi-dimensional coverage supported by references, figures, and tables Warnings about common pitfalls in the implementation process, as well as detailed examinations of possible solutions A timely account of developments in various areas of application Solved examples and exercises in each chapter

Detailing a wide range of contemporary applications, the text includes coverage of those in biometric systems, including physiological and behavioral biometrics. It also examines applications in legal threat assessment, robotic path planning, and navigation control. The authors consider fusion methods in biometrics and bioinformatics and also provide

effective disease identification techniques. Complete with algorithms for robotic path planning, the book addresses character recognition and presents the picture compression technique by using a customized hybrid algorithm. The authors conclude with a discussion of parallel architecture for artificial neural networks and supply guidelines for creating and implementing

effective soft computing designs. **Soft Computing and Its Applications** Springer Science & Business Media 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. *Fuzzy Logic and Soft Computing* Springer This book explores the concept of artificial intelligence based on knowledge-based algorithms. Given the current hardware and software technologies and artificial intelligence theories, we can think of how efficient to provide a solution, how

best to implement a model and how successful to achieve it. This edition provides readers with the most recent progress and novel solutions in artificial intelligence. This book aims at presenting the research results and solutions of applications in relevance with artificial intelligence technologies. We propose to researchers and practitioners some methods

to advance the intelligent systems and apply artificial intelligence to specific or general purpose. This book consists of 13 contributions that feature fuzzy (r, s)-minimal pre- and β -open sets, handling big cocurrence matrices, Xie-Beni-type fuzzy cluster validation, fuzzy c-regression models, combination of genetic algorithm and ant colony optimization, building expert

system, fuzzy logic and neural network, individual role adaptation for team sports, application of polynomial neural networks, recursive neuro-fuzzy algorithm for water management, application of interactive genetic algorithm, and Artificial Neural Network (ANN) model. This edition is published in original, peer reviewed contributions covering from initial design to final

<p>prototypes and verification. <i>Fuzzy Linear Programming: Solution Techniques and Applications</i> Springer This book presents the necessary and essential backgrounds of fuzzy set theory and linear programming, particularly a broad range of common Fuzzy Linear Programming (FLP) models and related, convenient solution techniques. These models and methods belong to</p>	<p>three common classes of fuzzy linear programming, namely: (i) FLP problems in which all coefficients are fuzzy numbers, (ii) FLP problems in which the right-hand-side vectors and the decision variables are fuzzy numbers, and (iii) FLP problems in which the cost coefficients, the right-hand-side vectors and the decision variables are fuzzy numbers. The book essentially</p>	<p>generalizes the well-known solution algorithms used in linear programming to the fuzzy environment. Accordingly, it can be used not only as a textbook, teaching material or reference book for undergraduate and graduate students in courses on applied mathematics, computer science, management science, industrial engineering, artificial intelligence,</p>
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fuzzy information processes, and operations research, but can also serve as a reference book for researchers in these fields, especially those engaged in optimization and soft computing. For textbook purposes, it also includes simple and illustrative examples to help readers who are new to the field. Soft Computing Methods for System Dependability
McGraw-Hill

Education
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 Techniques for Engineering Optimization IGI Global

This two-volume book presents outcomes of the 7th International Conference on Soft Computing for Problem Solving, SocProS 2017. This conference is a joint technical collaboration between the Soft Computing Research Society, Liverpool Hope University (UK), the Indian Institute of Technology Roorkee, the South Asian University New Delhi and the National Institute of Technology Silchar, and brings

together researchers, engineers and practitioners to discuss thought-provoking developments and challenges in order to select potential future directions. The book presents the latest advances and innovations in the interdisciplinary areas of soft computing, including original research papers in the areas including, but not limited to, 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 is a valuable resource for both young and experienced researchers dealing with complex and

intricate real-world problems for which finding a solution by traditional methods is a difficult task.

Soft Computing in Artificial Intelligence

Springer Science & Business Media
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.

New Concepts

and Applications in Soft Computing

CRC Press
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.

Soft Computing

Springer Science & Business Media
Soft computing is a new, emerging discipline rooted in a group of technologies that aim to exploit the tolerance for imprecision and uncertainty in achieving solutions to complex problems. The principal components of soft computing are fuzzy logic, neurocomputing, genetic algorithms and probabilistic

reasoning. This volume is a collection of up-to-date articles giving a snapshot of the current state of the field. It covers the whole expanse, from theoretical foundations to applications.

The contributors are among the world leaders in the field. Contents: Fuzzy Logic and Genetic Algorithms Learning Fuzzy and Hybrid Systems Decision and

Aggregation Techniques Fuzzy Logic in Databases Foundations of Fuzzy Logic Applications of Fuzzy Sets Readership: Researchers and computer scientists. keywords: