

STUDIES IN FUZZINESS
AND SOFT COMPUTING

Studies in Fuzziness and Soft Computing

Les M. Sztandura
Christopher Pastore
Editors

Soft Computing in Textile Sciences



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Soft Computing In Textile Sciences

Les M. Sztandera, Christopher Pastore



Soft Computing In Textile Sciences:

Soft Computing in Textile Sciences Les M. Sztandera, Christopher Pastore, 2013-03-20 Textiles and computing have long been associated. High volume and low profit margins of textile products have driven the industry to invest in high technology particularly in the area of data interpretation and analysis. Thus it is virtually inevitable that soft computing has found a home in the textile industry. Contained in this volume are six chapters discussing various aspects of soft computing in the field of textiles and apparel.

Soft Computing in Textile Engineering Abhijit Majumdar, 2010-11-29 Soft computing refers to a collection of computational techniques which study model and analyse complex phenomena. As many textile engineering problems are inherently complex in nature, soft computing techniques have often provided optimum solutions to these cases. Although soft computing has several facets, it mainly revolves around three techniques: artificial neural networks, fuzzy logic, and genetic algorithms. The book is divided into five parts covering the entire process of textile production from fibre manufacture to garment engineering. These include soft computing techniques in yarn manufacture and modelling fabric and garment manufacture, textile properties and applications, and textile quality evaluation. Covers the entire process of textile production from fibre manufacture to garment engineering, including artificial neural networks, fuzzy logic, and genetic algorithms. Examines soft computing techniques in yarn manufacture and modelling fabric and garment manufacture. Specifically reviews soft computing in relation to textile properties and applications, featuring garment modelling and sewing machines.

Soft Computing in Measurement and Information Acquisition Leon Reznik, Vladik Kreinovich, 2012-12-06 This volume covers the fields of measurement and information acquisition. It contains a collection of papers representing the current research trends in these areas. What are those trends? The first one is the enormous growth in the amount of information and the amazing technologies which make this information available anywhere and anytime. The second one is a substantial development of methods of the information presentation, including to name just a few: multimedia, virtual environment, computer animation. The third one is the all-time boosting demand for improving the quality of decisions made on the basis of this information in various applications ranging from engineering to business. Nowadays, information acquisition should not only provide more information but also provide it in such a way as to assure effective and efficient processing of this information. And here comes a relatively new methodology of soft computing. Application of soft computing in measurement and information acquisition is considered in this volume.

Analysis and Design of Intelligent Systems Using Soft Computing Techniques Patricia Melin, Oscar Castillo, Eduardo G. Ramírez, Witold Pedrycz, 2007-09-20 This book comprises a selection of papers on new methods for analysis and design of hybrid intelligent systems using soft computing techniques from the IFSA 2007 World Congress held in Cancun, Mexico, June 2007.

Soft Computing and Fractal Theory for Intelligent Manufacturing Oscar Castillo, Patricia Melin, 2012-08-11 We describe in this book new methods for intelligent manufacturing using soft computing techniques and fractal theory. Soft Computing (SC) consists of several

computing paradigms including fuzzy logic neural networks and genetic algorithms which can be used to produce powerful hybrid intelligent systems Fractal theory provides us with the mathematical tools to understand the geometrical complexity of natural objects and can be used for identification and modeling purposes Combining SC techniques with fractal theory we can take advantage of the intelligence provided by the computer methods and also take advantage of the descriptive power of the fractal mathematical tools Industrial manufacturing systems can be considered as non linear dynamical systems and as a consequence can have highly complex dynamic behaviors For this reason the need for computational intelligence in these manufacturing systems has now been well recognized We consider in this book the concept of intelligent manufacturing as the application of soft computing techniques and fractal theory for achieving the goals of manufacturing which are production planning and control monitoring and diagnosis of faults and automated quality control As a prelude we provide a brief overview of the existing methodologies in Soft Computing We then describe our own approach in dealing with the problems in achieving intelligent manufacturing Our particular point of view is that to really achieve intelligent manufacturing in real world applications we need to use SC techniques and fractal theory

Synergies in Analysis, Discrete Mathematics, Soft Computing and Modelling P. V. Subrahmanyam,V. Antony Vijesh,Balasubramaniam Jayaram,Prakash Veeraraghavan,2023-02-02 This book contains select papers on mathematical analysis and modeling discrete mathematics fuzzy sets and soft computing All the papers were presented at the international conference on FIM28 SCMSPS20 virtually held at Sri Sivasubramaniya Nadar SSN College of Engineering Chennai India and Stella Maris College Autonomous Chennai from November 23 27 2020 The conference was jointly held with the support of the Forum for Interdisciplinary Mathematics Both the invited articles and submitted papers were broadly grouped under three heads Part 1 on analysis and modeling six chapters Part 2 on discrete mathematics and applications six chapters and Part 3 on fuzzy sets and soft computing three chapters

Soft Computing Approaches in Chemistry Hugh M. Cartwright,Les M. Sztandera,2012-12-06 The contributions to this book cover a wide range of applications of Soft Computing to the chemical domain The early roots of Soft Computing can be traced back to Lotfi Zadeh s work on soft data analysis 1 published in 1981 Soft Computing itself became fully established about 10 years later when the Berkeley Initiative in Soft Computing SISC an industrial liaison program was put in place at the University of California Berkeley Soft Computing applications are characterized by their ability to approximate many different kinds of real world systems tolerate imprecision partial truth and uncertainty and learn from their environment Such characteristics commonly lead to a better ability to match reality than other approaches can provide generating solutions of low cost high robustness and tractability Zadeh has argued that soft computing provides a solid foundation for the conception design and application of intelligent systems employing its methodologies symbiotically rather than in isolation There exists an implicit commitment to take advantage of the fusion of the various methodologies since such a fusion can lead to combinations that may provide performance well beyond that offered by any single technique

Fuzzy Filters for Image Processing Mike Nachtegaele, Dietrich van der Weken, Dimitri van de Ville, Etienne E. Kerre, 2013-06-05 The ongoing increase in scale of integration of electronics makes storage and computational power affordable to many applications. Also image processing systems can benefit from this trend. A variety of algorithms for image processing tasks becomes close at hand. From the whole range of possible approaches those based on fuzzy logic are the ones this book focusses on. A particular useful property of fuzzy logic techniques is their ability to represent knowledge in a way which is comprehensible to human interpretation. The theory of fuzzy sets and fuzzy logic was initiated in 1965 by Zadeh and is one of the most developed models to treat imprecision and uncertainty. Instead of the classical approach that an object belongs or does not belong to a set, the concept of a fuzzy set allows a gradual transition from membership to nonmembership, providing partial degrees of membership. Fuzzy techniques are often complementary to existing techniques and can contribute to the development of better and more robust methods, as has already been illustrated in numerous scientific branches. The present book resulted from the workshop Fuzzy Filters for Image Processing which was organized at the 10th FUZZ IEEE Conference in Melbourne, Australia. At this event several speakers have given an overview of the current state of the art of fuzzy filters for image processing. Afterwards the book has been completed with contributions of other international researchers.

Autonomous Robotic Systems Changjiu Zhou, Darío Maravall, Da Ruan, 2013-03-20 This book contains an edited collection of eighteen contributions on soft and hard computing techniques and their applications to autonomous robotic systems. Each contribution has been exclusively written for this volume by a leading researcher. The volume demonstrates the various ways that the soft computing and hard computing techniques can be used in different integrated manners to better develop autonomous robotic systems that can perform various tasks of vision perception, cognition, thinking, pattern recognition, decision making and reasoning, and control, amongst others. Each chapter of the book is self-contained and points out the future direction of research. It is a must reading for students and researchers interested in exploring the potentials of the fascinating field that will form the basis for the design of the intelligent machines of the future.

Madan M Gupta **Fuzzy Sets Based Heuristics for Optimization** José-Luis Verdegay, 2012-11-03 The aim of this volume is to show how Fuzzy Sets and Systems can help to provide robust and adaptive heuristic optimization algorithms in a variety of situations. The book presents the state of the art and gives a broad overview on the real practical applications that Fuzzy Sets based on heuristic algorithms have.

Cardinalities of Fuzzy Sets Maciej Wygralak, 2012-12-06 Counting is one of the basic elementary mathematical activities. It comes with two complementary aspects: to determine the number of elements of a set and to create an ordering between the objects of counting just by counting them over. For finite sets of objects these two aspects are realized by the same type of numbers: the natural numbers. That these complementary aspects of the counting process may need different kinds of numbers becomes apparent if one extends the process of counting to infinite sets. As general tools to determine numbers of elements, the cardinals have been created in set theory and set

theorists have in parallel created the ordinals to count over any set of objects For both types of numbers it is not only counting they are used for it is also the strongly related process of calculation especially addition and derived from it multiplication and even exponentiation which is based upon these numbers For fuzzy sets the idea of counting in both aspects loses its naive foundation because it is to a large extent founded upon of the idea that there is a clear distinction between those objects which have to be counted and those ones which have to be neglected for the particular counting process

Information Fusion in Data Mining Prof. Vicenç Torra, 2013-06-05 Information fusion is becoming a major requirement in data mining and knowledge discovery in databases This book presents some recent fusion techniques that are currently in use in data mining as well as data mining applications that use information fusion Special focus of the book is on information fusion in preprocessing model building and information extraction with various applications

Entropy Measures, Maximum Entropy Principle and Emerging Applications Karmeshu, 2012-10-01 The last two decades have witnessed an enormous growth with regard to applications of information theoretic framework in areas of physical biological engineering and even social sciences In particular growth has been spectacular in the field of information technology soft computing nonlinear systems and molecular biology Claude Shannon in 1948 laid the foundation of the field of information theory in the context of communication theory It is in deed remarkable that his framework is as relevant today as was when he first proposed it Shannon died on Feb 24 2001 Arun Netravali observes As if assuming that inexpensive high speed processing would come to pass Shannon figured out the upper limits on communication rates First in telephone channels then in optical communications and now in wireless Shannon has had the utmost value in defining the engineering limits we face Shannon introduced the concept of entropy The notable feature of the entropy framework is that it enables quantification of uncertainty present in a system In many realistic situations one is confronted only with partial or incomplete information in the form of moment or bounds on these values etc and it is then required to construct a probabilistic model from this partial information In such situations the principle of maximum entropy provides a rational basis for constructing a probabilistic model It is thus necessary and important to keep track of advances in the applications of maximum entropy principle to ever expanding areas of knowledge

Simulation in Textile Technology D Veit, 2012-06-11 The use of mathematical modelling and computer simulation can vastly improve the quality efficiency and economic success of textile technology Simulation in textile technology provides a comprehensive review of the key principles applications and benefits of modelling for textile production After an introduction to modelling and simulation Simulation in textile technology goes on to review the principles and applications of the main types of model The book first discusses neural networks and their applications before going on to explore evolutionary methods and fuzzy logic It then considers computational fluid dynamics and finite element modelling The modelling of fibrous structures and yarns are considered in the following chapters along with wound packages woven braided and knitted structures The book concludes by reviewing the simulation of textile

processes and machinery With its distinguished editor and team of expert contributors Simulation in textile technology is a valuable reference tool for all those involved in both developing models of textile processes and those applying them to improve process efficiency and product quality Provides a comprehensive review of the key principles applications and benefits of modelling for textile production Discusses neural networks and their applications before going on to explore evolutionary methods and fuzzy logic Considers the modelling of fibrous structures and yarns along with wound packages woven braided and knitted structures

Advanced Fuzzy Systems Design and Applications Yaochu Jin,2012-12-06

Fuzzy rule systems have found a wide range of applications in many fields of science and technology Traditionally fuzzy rules are generated from human expert knowledge or human heuristics for relatively simple systems In the last few years data driven fuzzy rule generation has been very active Compared to heuristic fuzzy rules fuzzy rules generated from data are able to extract more profound knowledge for more complex systems This book presents a number of approaches to the generation of fuzzy rules from data ranging from the direct fuzzy inference based to neural net works and evolutionary algorithms based fuzzy rule generation Besides the approximation accuracy special attention has been paid to the interpretability of the extracted fuzzy rules In other words the fuzzy rules generated from data are supposed to be as comprehensible to human beings as those generated from human heuristics To this end many aspects of interpretability of fuzzy systems have been discussed which must be taken into account in the data driven fuzzy rule generation In this way fuzzy rules generated from data are intelligible to human users and therefore knowledge about unknown systems can be extracted

Fuzzy Probabilities James J. Buckley,2012-12-06 In probability and statistics we often have to estimate probabilities and parameters in probability distributions using a random sample Instead of using a point estimate calculated from the data we propose using fuzzy numbers which are constructed from a set of confidence intervals In probability calculations we apply constrained fuzzy arithmetic because probabilities must add to one Fuzzy random variables have fuzzy distributions A fuzzy normal random variable has the normal distribution with fuzzy number mean and variance Applications are to queuing theory Markov chains inventory control decision theory and reliability theory

Applied Decision Support with Soft Computing Xinghuo Yu,2012-12-06 Soft computing has provided sophisticated methodologies for the development of intelligent decision support systems Fast advances in soft computing technologies such as fuzzy logic and systems artificial neural networks and evolutionary computation have made available powerful problem representation and modelling paradigms and learning and optimisation mechanisms for addressing modern decision making issues This book provides a comprehensive coverage of up to date conceptual frameworks in broadly perceived decision support systems and successful applications Different from other existing books this volume predominately focuses on applied decision support with soft computing Areas covered include planning management finance and administration in both the private and public sectors

Recent Advances in Intelligent Paradigms and Applications Ajith Abraham,2013-03-20 Digital systems that bring together the computing

capacity for processing large bodies of information with the human cognitive capability are called intelligent systems Building these systems has become one of the great goals of modern technology This goal has both intellectual and economic incentives The need for such intelligent systems has become more intense in the face of the global connectivity of the internet There has become an almost insatiable requirement for instantaneous information and decision brought about by this confluence of computing and communication This requirement can only be satisfied by the construction of innovative intelligent systems A second and perhaps an even more significant development is the great advances being made in genetics and related areas of biotechnology Future developments in biotechnology may open the possibility for the development of a true human silicon interaction at the micro level neural and cellular bringing about a need for intelligent systems What is needed to further the development of intelligent systems are tools to enable the representation of human cognition in a manner that allows formal manipulation The idea of developing such an algebra goes back to Leibniz in the 17th century with his dream of a calculus ratiocinator It wasn't until two hundred years later beginning with the work of Boole Cantor and Frege that a formal mathematical logic for modeling human reasoning was developed The introduction of the modern digital computer during the Second World War by von Neumann and others was a culmination of this intellectual trend

Changes of Problem Representation Eugene Fink, 2013-03-20 The purpose of our research is to enhance the efficiency of AI problem solvers by automating representation changes We have developed a system that improves the description of input problems and selects an appropriate search algorithm for each given problem Motivation Researchers have accumulated much evidence on the importance of appropriate representations for the efficiency of AI systems The same problem may be easy or difficult depending on the way we describe it and on the search algorithm we use Previous work on the automatic improvement of problem descriptions has mostly been limited to the design of individual learning algorithms The user has traditionally been responsible for the choice of algorithms appropriate for a given problem We present a system that integrates multiple description changing and problem solving algorithms The purpose of the reported work is to formalize the concept of representation and to confirm the following hypothesis An effective representation changing system can be built from three parts a library of problem solving algorithms a library of algorithms that improve problem descriptions a control module that selects algorithms for each given problem

Biologically Inspired Robot Behavior Engineering Richard J. Duro, Jose Santos, Manuel Grana, 2013-06-05 The book presents an overview of current research on biologically inspired autonomous robotics from the perspective of some of the most relevant researchers in this area The book crosses several boundaries in the field of robotics and the closely related field of artificial life The key aim throughout the book is to obtain autonomy at different levels From the basic motor behavior in some exotic robot architectures right through to the planning of complex behaviors or the evolution of robot control structures the book explores different degrees and definitions of autonomous behavior These behaviors are supported by a wide variety of modeling techniques structural

grammars neural networks and fuzzy logic and evolution underlies many of the development processes Thus this text can be used by scientists and students interested in these areas and provides a general view of the field for a more general audience

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