

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, 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.

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, 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

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

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

Fuzzy Filters for Image Processing Mike Nachttegael,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 process ing 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.

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 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.

Soft Computing In Textile Sciences Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Soft Computing In Textile Sciences**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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