Taner Bilgiç
Bernard De Baets
Okyay Kaynak (Eds.)

Fuzzy Sets and Systems — IFSA 2003

10th International Fuzzy Systems Association World Congress
Istanbul, Turkey, June/July 2003
Proceedings

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Fuzzy Sets And Systems Ifsa 2003

Christian Moewes,Andreas Nürnberger

Fuzzy Sets And Systems Ifsa 2003:

   Fuzzy Sets and Systems - IFSA 2003 Taner Bilgic,Bernard De Baets,Okays Kaynak,2003-08-03 The refereed proceedings of the 10th International Fuzzy Systems Association World Congress IFSA 2003 held in June July 2003 in Istanbul Turkey The 84 papers presented together with 5 invited papers were carefully reviewed and selected form 318 submissions The papers address all current issues in the area and present the state of the art in fuzzy sets fuzzy systems and fuzzy logic and their applications in a broad variety of fields The papers are divided in four parts on mathematical issues methodological issues application areas and cross disciplinary issues   *Ferroelectrics* Indrani Coondoo,2010-12-14 Ferroelectric materials exhibit a wide spectrum of functional properties including switchable polarization piezoelectricity high non linear optical activity pyroelectricity and non linear dielectric behaviour These properties are crucial for application in electronic devices such as sensors microactuators infrared detectors microwave phase filters and non volatile memories This unique combination of properties of ferroelectric materials has attracted researchers and engineers for a long time This book reviews a wide range of diverse topics related to the phenomenon of ferroelectricity in the bulk as well as thin film form and provides a forum for scientists engineers and students working in this field The present book containing 24 chapters is a result of contributions of experts from international scientific community working in different aspects of ferroelectricity related to experimental and theoretical work aimed at the understanding of ferroelectricity and their utilization in devices It provides an up to date insightful coverage to the recent advances in the synthesis characterization functional properties and potential device applications in specialized areas   Fuzzy Sets and Systems - IFSA 2003 Taner Bilgic,Bernard De Baets,Okays Kaynak,2014-03-12 The refereed proceedings of the 10th International Fuzzy Systems Association World Congress IFSA 2003 held in June July 2003 in Istanbul Turkey The 84 papers presented together with 5 invited papers were carefully reviewed and selected form 318 submissions The papers address all current issues in the area and present the state of the art in fuzzy sets fuzzy systems and fuzzy logic and their applications in a broad variety of fields The papers are divided in four parts on mathematical issues methodological issues application areas and cross disciplinary issues   **Fuzzy Transforms for Image Processing and Data Analysis** Ferdinando Di Martino,Salvatore Sessa,2020-04-22 This book analyzes techniques that use the direct and inverse fuzzy transform for image processing and data analysis The book is divided into two parts the first of which describes methods and techniques that use the bi dimensional fuzzy transform method in image analysis In turn the second describes approaches that use the multidimensional fuzzy transform method in data analysis An F transform in one variable is defined as an operator which transforms a continuous function f on the real interval a b in an n dimensional vector by using n assigned fuzzy sets A1 An which constitute a fuzzy partition of a b Then an inverse F transform is defined in order to convert the n dimensional vector output in a continuous function that equals f up to an arbitrary quantity We may limit this concept to the finite case by defining the discrete F transform of a function f in one

variable even if it is not known a priori A simple extension of this concept to functions in two variables allows it to be used for the coding decoding and processing of images Moreover an extended version with multidimensional functions can be used to address a host of topics in data analysis including the analysis of large and very large datasets Over the past decade many researchers have proposed applications of fuzzy transform techniques for various image processing topics such as image coding decoding image reduction image segmentation image watermarking and image fusion and for such data analysis problems as regression analysis classification association rule extraction time series analysis forecasting and spatial data analysis The robustness ease of use and low computational complexity of fuzzy transforms make them a powerful fuzzy approximation tool suitable for many computer science applications This book presents methods and techniques based on the use of fuzzy transforms in various applications of image processing and data analysis including image segmentation image tamper detection forecasting and classification highlighting the benefits they offer compared with traditional methods Emphasis is placed on applications of fuzzy transforms to innovative problems such as massive data mining and image and video security in social networks based on the application of advanced fragile watermarking systems This book is aimed at researchers students computer scientists and IT developers to acquire the knowledge and skills necessary to apply and implement fuzzy transforms based techniques in image and data analysis applications   Computational Intelligence in Image Processing Amitava Chatterjee,Patrick Siarry,2012-08-10 Computational intelligence based techniques have firmly established themselves as viable alternate mathematical tools for more than a decade They have been extensively employed in many systems and application domains among these signal processing automatic control industrial and consumer electronics robotics finance manufacturing systems electric power systems and power electronics Image processing is also an extremely potent area which has attracted the attention of many researchers who are interested in the development of new computational intelligence based techniques and their suitable applications in both research problems and in real world problems Part I of the book discusses several image preprocessing algorithms Part II broadly covers image compression algorithms Part III demonstrates how computational intelligence based techniques can be effectively utilized for image analysis purposes and Part IV shows how pattern recognition classification and clustering based techniques can be developed for the purpose of image inferencing The book offers a unified view of the modern computational intelligence techniques required to solve real world problems and it is suitable as a reference for engineers researchers and graduate students
   Soft Computing in Image Processing Mike Nachtegael,Dietrich van der Weken,Etienne E. Kerre,Wilfried Philips,2007-06-24 Images have always been very important in human life Their applications range from primitive communication between humans of all ages to advanced technologies in the industrial medical and military field The increased possibilities to capture and analyze images have contributed to the largeness that the scientific field of image processing has become today Many techniques are being applied including soft computing Soft Computing in Image

Processing Recent Advances follows the edited volumes Fuzzy Techniques in Image Processing volume 52 published in 2000 and Fuzzy Filters for Image Processing volume 122 published in 2003 and covers a wide range of both practical and theoretical applications of soft computing in image processing The 16 excellent chapters of the book have been grouped into five parts Applications in Remote Sensing Applications in Image Retrieval Applications in Image Analysis Other Applications and Theoretical Contributions The focus of the book is on practical applications which makes it interesting for every researcher that is involved with soft computing image processing or both scientific branches   **Modeling Decisions for Artificial Intelligence** Vicenç Torra,2007-07-30 Decision modeling is a key area in the developing field of AI and this timely work connects researchers and professionals with the very latest research It constitutes the refereed proceedings of the 4th International Conference on Modeling Decisions for Artificial Intelligence held in Kitakyushu Japan in August 2007 The 42 revised full papers presented together with 4 invited lectures are devoted to theory and tools as well as applications

Artificial Intelligence Research and Development T. Alsinet,J. Puyol-Gruart,C. Torras,2008-10-15 There was a time when AI was seen by many as science fiction i e the healthy endeavour of speculating about the future Now the future is here AI has passed from being a visionary discipline to lying at the core of many commercial enterprises AI programs scattered through the web influence nowadays our lives by extracting profiles and offering tailored advertisement helping us in our searches establishing social networks providing entertainment And not just in the net but also in the physical world In Japan there are robots that guide customers through marketplaces advising them where to find the product matching their needs and realistic replicas of university professors allow them to teach their lectures a hundred kilometres away from the classroom Not to speak about intelligent prostheses and remote high precision surgery In the Catalan speaking world there are no robots in marketplaces yet but it is coming Recently the first commercial humanoid robot was built Since AI technology is becoming reasonably mature companies are progressively relying on it The Catalan Association for Artificial Intelligence ACIA tries to promote synergies within the research community and also between the different actors playing a role in the development of AI from universities to industry from governmental departments to the information society from entertainment enterprises to citizen services   *Fuzzy Stochastic Multiobjective Programming* Masatoshi Sakawa,Ichiro Nishizaki,Hideki Katagiri,2011-02-03 Although studies on multiobjective mathematical programming under uncertainty have been accumulated and several books on multiobjective mathematical programming under uncertainty have been published e g Stancu Minasian 1984 Slowinski and Teghem 1990 Sakawa 1993 Lai and Hwang 1994 Sakawa 2000 there seems to be no book which concerns both randomness of events related to environments and fuzziness of human judgments simultaneously in multiobjective decision making problems In this book the authors are concerned with introducing the latest advances in the field of multiobjective optimization under both fuzziness and randomness on the basis of the authors continuing research works Special stress is placed on interactive decision making aspects of fuzzy stochastic multiobjective programming for

human centered systems under uncertainty in most realistic situations when dealing with both fuzziness and randomness Organization of each chapter is briefly summarized as follows Chapter 2 is devoted to mathematical preliminaries which will be used throughout the remainder of the book Starting with basic notions and methods of multiobjective programming interactive fuzzy multiobjective programming as well as fuzzy multiobjective programming is outlined In Chapter 3 by considering the imprecision of decision maker s DM s judgment for stochastic objective functions and or constraints in multiobjective problems fuzzy multiobjective stochastic programming is developed In Chapter 4 through the consideration of not only the randomness of parameters involved in objective functions and or constraints but also the experts ambiguous understanding of the realized values of the random parameters multiobjective programming problems with fuzzy random variables are formulated In Chapter 5 for resolving conflict of decision making problems in hierarchical managerial or public organizations where there exist two DMs who have different priorities in making decisions two level programming problems are discussed Finally Chapter 6 outlines some future research directions **Decision Theory and Multi-Agent Planning** Giacomo Della Riccia,Didier Dubois,Rudolf Kruse,Hans-Joachim Lenz,2007-05-03 The work presents a modern unified view on decision support and planning by considering its basics like preferences belief possibility and probability as well as utilities These features together are immanent for software agents to believe the user that the agents are intelligent Web Intelligence and Security Mark Last,Abraham Kandel,2010 **Architecting Dependable Systems** Rogério de Lemos,Cristina Gacek,Alexander Romanovsky,2007-08-01 As software systems become more and more ubiquitous the issues of dependability become more and more critical Given that solutions to these issues must be planned at the beginning of the design process it is appropriate that these issues be addressed at the architectural level This book is inspired by the ICSE 2002 Workshop on Architecting Dependable Systems it is devoted to current topics relevant for improving the state of the art for architecting dependability Some of the 13 peer reviewed papers presented were initially presented at the workshop others were invited in order to achieve competent and complete coverage of all relevant aspects The papers are organized in topical sections on architectures for dependability fault tolerance in software architectures dependability analysis in software architectures industrial experience Nonlinear Integrals And Their Applications In Data Mining Zhenyuan Wang,Rong Yang,Kwong-sak Leung,2010-06-09 Regarding the set of all feature attributes in a given database as the universal set this monograph discusses various nonadditive set functions that describe the interaction among the contributions from feature attributes towards a considered target attribute Then the relevant nonlinear integrals are investigated These integrals can be applied as aggregation tools in information fusion and data mining such as synthetic evaluation nonlinear multiregressions and nonlinear classifications Some methods of fuzzification are also introduced for nonlinear integrals such that fuzzy data can be treated and fuzzy information is retrievable The book is suitable as a text for graduate courses in mathematics computer science and information science It is also useful to researchers in the relevant area *Handbook of Research on*

Fuzzy Information Processing in Databases Galindo, Jos,2008-05-31 This book provides comprehensive coverage and definitions of the most important issues concepts trends and technologies in fuzzy topics applied to databases discussing current investigation into uncertainty and imprecision management by means of fuzzy sets and fuzzy logic in the field of databases and data mining It offers a guide to fuzzy information processing in databases Provided by publisher

Sustaining Power Resources through Energy Optimization and Engineering Vasant, Pandian,Voropai, Nikolai,2016-01-12 As the world continues to evolve technologically people depend more heavily on energy dependent systems to fulfill their daily needs However as these needs grow it is important to develop sustainable systems that are reliable as well as environmentally sound Sustaining Power Resources through Energy Optimization and Engineering highlights the sustainable development and efficient operation of energy systems being provided to consumers Featuring emergent research and trends within the area of power optimization and engineering this book is a crucial reference source for engineers researchers sustainability experts and professionals interested in the improvement and usage of infrastructural energy systems **New Trends in Neutrosophic Theory and Applications** Florentin Smarandache (editor),Surapati Pramanik (editor),2016-11-05 Neutrosophic theory and applications have been expanding in all directions at an astonishing rate especially after the introduction the journal entitled Neutrosophic Sets and Systems New theories techniques algorithms have been rapidly developed One of the most striking trends in the neutrosophic theory is the hybridization of neutrosophic set with other potential sets such as rough set bipolar set soft set hesitant fuzzy set etc The different hybrid structure such as rough neutrosophic set single valued neutrosophic rough set bipolar neutrosophic set single valued neutrosophic hesitant fuzzy set etc are proposed in the literature in a short period of time Neutrosophic set has been a very important tool in all various areas of data mining decision making e learning engineering medicine social science and some more The book New Trends in Neutrosophic Theories and Applications focuses on theories methods algorithms for decision making and also applications involving neutrosophic information Some topics deal with data mining decision making e learning graph theory medical diagnosis probability theory topology and some more 30 papers by 39 authors and coauthors **Smooth Neutrosophic Preuniform Spaces** M. K. EL GAYYAR, As a new branch of philosophy the neutrosophy was presented by Smarandache in 1998 It was presented as the study of origin nature and scope of neutralities as well as their interactions with different ideational spectra The aim of this paper is to introduce the concepts of smooth neutrosophic preuniform space smooth neutrosophic preuniform subspace and smooth neutrosophic preuniform mappings Furthermore some properties of these concepts will be investigated **Challenging Problems and Solutions in Intelligent Systems** Guy de Trė,Przemysław Grzegorzewski,Janusz Kacprzyk,Jan W. Owsiński,Wojciech Penczek,Sławomir Zadrożny,2016-03-25 This volume presents recent research challenging problems and solutions in Intelligent Systems covering the following disciplines artificial and computational intelligence fuzzy logic and other non classic logics intelligent database systems information

retrieval information fusion intelligent search engines data mining cluster analysis unsupervised learning machine learning intelligent data analysis group decision support systems intelligent agents and multi agent systems knowledge based systems imprecision and uncertainty handling electronic commerce distributed systems etc The book defines a common ground for sometimes seemingly disparate problems and addresses them by using the paradigm of broadly perceived intelligent systems It presents a broad panorama of a multitude of theoretical and practical problems which have been successfully dealt with using the paradigm of intelligent computing **Computational Intelligence in Intelligent Data Analysis** Christian Moewes,Andreas Nürnberger,2012-08-23 Complex systems and their phenomena are ubiquitous as they can be found in biology finance the humanities management sciences medicine physics and similar fields For many problems in these fields there are no conventional ways to mathematically or analytically solve them completely at low cost On the other hand nature already solved many optimization problems efficiently Computational intelligence attempts to mimic nature inspired problem solving strategies and methods These strategies can be used to study model and analyze complex systems such that it becomes feasible to handle them Key areas of computational intelligence are artificial neural networks evolutionary computation and fuzzy systems As only a few researchers in that field Rudolf Kruse has contributed in many important ways to the understanding modeling and application of computational intelligence methods On occasion of his 60th birthday a collection of original papers of leading researchers in the field of computational intelligence has been collected in this volume **Data Mining in Biomedicine Using Ontologies** Mihail Popescu,Dong Xu,2009 Presently a growing number of ontologies are being built and used for annotating data in biomedical research Thanks to the tremendous amount of data being generated ontologies are now being used in numerous ways including connecting different databases refining search capabilities interpreting experimental clinical data and inferring knowledge This cutting edge resource introduces you to latest developments in bio ontologies The book provides you with the theoretical foundations and examples of ontologies as well as applications of ontologies in biomedicine from molecular levels to clinical levels You also find details on technological infrastructure for bio ontologies This comprehensive one stop volume presents a wide range of practical bio ontology information offering you detailed guidance in the clustering of biological data protein classification gene and pathway prediction and text mining More than 160 illustrations support key topics throughout the book

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