

**STUDIES IN FUZZINESS  
AND SOFT COMPUTING**

**Olga Pons · Maria Amparo Vila  
Janusz Kacprzyk**  
Editors

# **Knowledge Management in Fuzzy Databases**



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# Knowledge Management In Fuzzy Databases Studies In Fuzziness And Soft Computing

**Witold Abramowicz, Jozef M Zurada**



## **Knowledge Management In Fuzzy Databases Studies In Fuzziness And Soft Computing:**

**Knowledge Management in Fuzzy Databases** Olga Pons, Maria A. Vila, 2013-11-11 1 When I was asked by the editors of this book to write a foreword I was seized by panic Obviously neither I am an expert in Knowledge Representation in Fuzzy Databases nor I could have been beforehand unaware that the book's contributors would be some of the most outstanding researchers in the field However Amparo Vila's gentle insistence gradually broke down my initial resistance and panic then gave way to worry Which paving stones did I have at my disposal for making an entrance to the book After thinking about it for some time I concluded that it would be pretentious on my part to focus on the subjects which are dealt with directly in the contributions presented and that it would instead be better to confine myself to making some general reflections on knowledge representation given by imprecise information using fuzzy sets reflections which have been suggested to me by some words in the following articles such as graded notions fuzzy objects uncertainty fuzzy implications fuzzy inference empty intersection etc *Fuzzy Knowledge Management for the Semantic Web* Zongmin Ma, Fu Zhang, Li Yan, Jingwei Cheng, 2013-09-28 This book goes to great depth concerning the fast growing topic of technologies and approaches of fuzzy logic in the Semantic Web The topics of this book include fuzzy description logics and fuzzy ontologies queries of fuzzy description logics and fuzzy ontology knowledge bases extraction of fuzzy description logics and ontologies from fuzzy data models storage of fuzzy ontology knowledge bases in fuzzy databases fuzzy Semantic Web ontology mapping and fuzzy rules and their interchange in the Semantic Web The book aims to provide a single record of current research in the fuzzy knowledge representation and reasoning for 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 serve the knowledge and data engineering professional faced with non traditional applications that make the application of conventional approaches difficult or impossible *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 *Recent Issues on Fuzzy Databases* Gloria Bordogna, Gabriella Pasi, 2013-03-19 First of all I would like to congratulate Gabriella Pasi and Gloria Bordogna for the work they accomplished in preparing this new book in the series Study in Fuzziness and Soft Computing Recent Issues on the Management of Fuzziness in Databases is undoubtedly a token of their long lasting and active involvement in the area of Fuzzy Information Retrieval and Fuzzy Database Systems This book is really welcome in the area of fuzzy databases where they are not numerous although the first works at the crossroads of fuzzy sets and databases were initiated about twenty years ago by L Zadeh Only five books have been published since 1995 when the first volume dedicated to fuzzy databases published in the series Study

in Fuzziness and Soft Computing edited by J Kacprzyk and myself appeared Going beyond books strictly speaking let us also mention the existence of review papers that are part of a couple of handbooks related to fuzzy sets published since 1998 The area known as fuzzy databases covers a bunch of topics among which flexible queries addressed to regular databases the extension of the notion of a functional dependency data mining and fuzzy summarization querying databases containing imperfect attribute values represented thanks to possibility distributions

**Spatio-Temporal Databases** Rita de Caluwe, Guy De Tré, Gloria Bordogna, 2013-04-17 Spatio Temporal Databases explores recent trends in flexible querying and reasoning about time and space related information in databases It shows how flexible querying enhances standard querying expressiveness in many different ways with the aim of facilitating extraction of relevant data and information Flexible spatial and temporal reasoning denotes qualitative reasoning about dynamic changes in the spatial domain characterized by imprecision or uncertainty or both Many of the contributions focus on GIS while some others are more general or focus on related application fields presenting theoretical viewpoints and techniques that are inspiring or can be adapted for GIS The first part bundles the contributions on advances at the theoretical level also discussing examples and opening further perspectives The second part presents contributions on well developed applications The authors explain how to handle imprecision and uncertainty demonstrating how advanced techniques can help to solve diverse problems related to GIS

**Fuzzy Techniques in Image Processing** Etienne E. Kerre, Mike Nachttegaal, 2013-03-19 Since time immemorial vision in general and images in particular have played an important and essential role in human life Nowadays the field of image processing also has numerous scientific commercial industrial and military applications All these applications result from the interaction between fundamental scientific research on the one hand and the development of new and high standard technology on the other hand Regarding the scientific component quite recently the scientific community became familiar with fuzzy techniques in image processing which make use of the framework of fuzzy sets and related theories The theory of fuzzy sets 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 With this volume we want to demonstrate that the introduction and application of fuzzy techniques can also be very successful in the area of image processing This book contains high quality contributions of over 30 field experts covering a wide range of both theoretical and practical applications of fuzzy techniques in image processing

*Fuzzy Information Processing* Guilherme A. Barreto, Ricardo Coelho, 2018-07-03 This book constitutes the thoroughly refereed proceedings of the 37th IFSA Conference NAFIPS 2018 held in Fortaleza Brazil in July 2018 The 55 full papers presented were carefully reviewed and selected from 73 submissions The papers deal with a large

spectrum of topics including theory and applications of fuzzy numbers and sets fuzzy logic fuzzy inference systems fuzzy clustering fuzzy pattern classification neuro fuzzy systems fuzzy control systems fuzzy modeling fuzzy mathematical morphology fuzzy dynamical systems time series forecasting and making decision under uncertainty Flexible Approaches in Data, Information and Knowledge Management Olivier Pivert, Sławomir Zadrozny, 2013-09-12 This volume showcases contributions from internationally known researchers in the field of information management Most of the approaches presented here make use of fuzzy logic introduced by L A Zadeh almost 50 years ago which constitute a powerful tool to model and handle gradual concepts What all of these contributions have in common is placing the user at the center of the information system be it for helping him/her to query a data set to handle imperfect information or to discover useful knowledge from a massive collection of data Researchers working in data and knowledge management will greatly benefit from this collection of up to date studies This may be also an invaluable source of information for postgraduate students interested in advanced information management techniques **Fuzzy Classification of Online Customers** Nicolas Werro, 2015-02-26 This book introduces a fuzzy classification approach which combines relational databases with fuzzy logic for more effective and powerful customer relationship management CRM It shows the benefits of a fuzzy classification in contrast to the traditional sharp evaluation of customers for the acquisition retention and recovery of customers in online shops The book starts with a presentation of the basic concepts fuzzy set theory and the combination of relational databases and fuzzy classification In its second part it focuses on the customer perspective detailing the central concepts of CRM its theoretical constructs and aspects of analytical operational and collaborative CRM It juxtaposes fuzzy and sharp customer classes and shows the implications for customer positioning mass customization personalization customer assessment and controlling Finally the book presents the application and implementation of the concepts in online shops A detailed case study presents the application and a separate chapter introduces the fuzzy Classification Query Language fCQL toolkit for implementing these concepts In its appendix the book lists the fuzzy set operators and the query language's grammar

**Soft Computing Applications for Database Technologies** K. Anbumani, R. Nedunchezian, 2010-01-01 This book investigates the advent of soft computing and its applications in database technologies Provided by publisher **Knowledge Discovery for Business Information Systems** Witold Abramowicz, Jozef M Zurada, 2006-04-18 Current database technology and computer hardware allow us to gather store access and manipulate massive volumes of raw data in an efficient and inexpensive manner In addition the amount of data collected and warehoused in all industries is growing every year at a phenomenal rate Nevertheless our ability to discover critical non obvious nuggets of useful information in data that could influence or help in the decision making process is still limited Knowledge discovery KDD and Data Mining DM is a new multidisciplinary field that focuses on the overall process of information discovery from large volumes of data The field combines database concepts and theory machine learning pattern recognition statistics artificial intelligence uncertainty

management and high performance computing To remain competitive businesses must apply data mining techniques such as classification prediction and clustering using tools such as neural networks fuzzy logic and decision trees to facilitate making strategic decisions on a daily basis Knowledge Discovery for Business Information Systems contains a collection of 16 high quality articles written by experts in the KDD and DM field from the following countries Austria Australia Bulgaria Canada China Hong Kong Estonia Denmark Germany Italy Poland Singapore and USA *Fuzzy Sets and Systems - IFSA 2003* Taner Bilgic, Bernard De Baets, Oktay 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 from 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 **Computational Intelligence, Theory and Applications** Bernd Reusch, 2006-08-18 This book constitutes the refereed proceedings of the 8th Dortmund Fuzzy Days held in Dortmund Germany 2004 The Fuzzy Days conference has established itself as an international forum for the discussion of new results in the field of Computational Intelligence All the papers had to undergo a thorough review guaranteeing a solid quality of the programme The papers are devoted to foundational and practical issues in fuzzy systems neural networks evolutionary algorithms and machine learning and thus cover the whole range of computational intelligence Beyond Databases, Architectures and Structures. Advanced Technologies for Data Mining and Knowledge Discovery Stanisław Kozielski, Dariusz Mrozek, Paweł Kasprowski, Bożena Małysiak-Mrozek, Daniel Kostrzewa, 2016-04-28 This book constitutes the refereed proceedings of the 12th International Conference entitled Beyond Databases Architectures and Structures BDAS 2016 held in Ustro Poland in May June 2016 It consists of 57 carefully reviewed papers selected from 152 submissions The papers are organized in topical sections namely artificial intelligence data mining and knowledge discovery architectures structures and algorithms for efficient data processing data warehousing and OLAP natural language processing ontologies and semantic Web bioinformatics and biomedical data analysis data processing tools novel applications of database systems Fuzzy Systems in Medicine Piotr S. Szczepaniak, Paulo J.G. Lisboa, 2000-01-24 Provides an introduction to the fundamental concepts of fuzziness together with a compilation of recent advances in the application to medicine The tutorials in the first part of the book range from basic concepts through theoretical frameworks to rule simplification through data clustering methodologies and the design of multivariate rule bases through self learning by mapping fuzzy systems onto neural network structures The case studies which follow are representative of the wide range of applications currently pursued in relation to medicine The majority of applications presented in this book are about bridging the gap between low level sensor measurements and intermediate or high level data representations The book offers a comprehensive perspective from leading authorities world wide and

provides a tantalising glimpse into the role of sophisticated knowledge engineering methods in shaping the landscape of medical technology in the future

**Recent Advances in Decision Making** Elisabeth Rakus-Andersson, Ronald R. Yager, Nikhil Ichalkaranje, 2009-08-04 Intelligent paradigms are increasingly finding their ways in the design and development of decision support systems This book presents a sample of recent research results from key researchers The contributions include Introduction to intelligent systems in decision making A new method of ranking intuitionistic fuzzy alternatives Fuzzy rule base model identification by bacterial memetic algorithms Discovering associations with uncertainty from large databases Dempster Shafer structures monotonic set measures and decision making Interpretable decision making models A general methodology for managerial decision making Supporting decision making via verbalization of data analysis results using linguistic data summaries Computational intelligence in medical decisions making This book is directed to the researchers graduate students professors decision makers and to those who are interested to investigate intelligent paradigms in decision making

**Soft Computing for Information Processing and Analysis** Masoud Nikravesh, Lotfi A. Zadeh, 2006-07-02 Search engines with Google at the top have become the most heavily used online service with millions of searches performed every day and many remarkable capabilities Soft Computing for Information Processing and Analysis includes reports from the front of soft computing in the internet industry and imparts knowledge and understanding of the significance of the field s accomplishments new developments and future directions This carefully edited book has evolved from presentations made by the participants of a meeting entitled Fuzzy Logic and the Internet Enhancing the Power of the Internet organized by the Berkeley Initiative in Soft Computing BISC University of California Berkeley It addresses the important topics of modern search engines such as fuzzy query decision analysis and support systems including articles about topics such as Web Intelligence World Knowledge and Fuzzy Logic by Lotfi A Zadeh perception based information processing or web intelligence

**Fuzzy Discrete Structures** Davender S. Malik, John N. Mordeson, 2013-11-11 This ambitious exposition by Malik and Mordeson on the fuzzification of discrete structures not only supplies a solid basic text on this key topic but also serves as a viable tool for learning basic fuzzy set concepts from the ground up due to its unusual lucidity of exposition While the entire presentation of this book is in a completely traditional setting with all propositions and theorems provided totally rigorous proofs the readability of the presentation is not compromised in any way in fact the many excellently chosen examples illustrate the often tricky concepts the authors address The book s specific topics including fuzzy versions of decision trees networks graphs automata etc are so well presented that it is clear that even those researchers not primarily interested in these topics will after a cursory reading choose to return to a more in depth viewing of its pages Naturally when I come across such a well written book I not only think of how much better I could have written my co authored monographs but naturally how this work as distant as it seems to be from my own area of interest could nevertheless connect with such Before presenting the briefest of some ideas in this direction let me state that my interest in

fuzzy set theory FST has been since about 1975 in connecting aspects of FST directly with corresponding probability concepts One chief vehicle in carrying this out involves the concept of random sets *Soft Computing for Image Processing* Sankar K. Pal, Ashish Ghosh, Malay K. Kundu, 2013-03-19 Any task that involves decision making can benefit from soft computing techniques which allow premature decisions to be deferred The processing and analysis of images is no exception to this rule In the classical image analysis paradigm the first step is nearly always some sort of segmentation process in which the image is divided into hopefully meaningful parts It was pointed out nearly 30 years ago by Prewitt <sup>1</sup> that the decisions involved in image segmentation could be postponed by regarding the image parts as fuzzy rather than crisp subsets of the image It was also realized very early that many basic properties of and operations on image subsets could be extended to fuzzy subsets for example the classic paper on fuzzy sets by Zadeh <sup>2</sup> discussed the set algebra of fuzzy sets using sup for union and inf for intersection and extended the definition of convexity to fuzzy sets These and similar ideas allowed many of the methods of image analysis to be generalized to fuzzy image parts For a recent review on geometric description of fuzzy sets see e.g. <sup>3</sup> Fuzzy methods are also valuable in image processing and coding where learning processes can be important in choosing the parameters of filters quantizers etc Perception-based Data Mining and Decision Making in Economics and Finance Ildar Batyrshin, 2007-03-15 The primary goal of this book is to present to the scientific and management communities a selection of applications using recent Soft Computing SC and Computing with Words and Perceptions CWP models and techniques meant to solve some economics and financial problems that are of utmost importance The book starts with a coverage of data mining tools and techniques that may be of use and significance for economic and financial analyses and applications Notably fuzzy and natural language based approaches and solutions for a more human consistent dealing with decision support time series analysis forecasting clustering etc are discussed The second part deals with various decision making models particularly under probabilistic and fuzzy uncertainty and their applications in solving a wide array of problems including portfolio optimization option pricing financial engineering risk analysis etc The selected examples could also serve as a starting point or as an opening out in the SC and CWP techniques application to a wider range of problems in economics and finance



## The Enigmatic Realm of **Knowledge Management In Fuzzy Databases Studies In Fuzziness And Soft Computing**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Knowledge Management In Fuzzy Databases Studies In Fuzziness And Soft Computing** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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