

STUDIES IN *FUZZINESS*
AND *SOFT COMPUTING*

in Fuzziness and Soft Computing

Olga Pons · Maria Amparo Vila
Janusz Kacprzyk
Editors

Knowledge Management in Fuzzy Databases



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Lakhmi C. Jain, Janusz Kacprzyk



Knowledge Management In Fuzzy Databases:

Knowledge Management in Fuzzy Databases Olga Pons, Maria A. Vila, 2014-01-15 **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 **Knowledge Management in Fuzzy Databases** Olga Pons, 2000 The volume presents recent developments in the introduction of fuzzy probabilistic and rough elements into basic components of fuzzy databases and their use notably querying and information retrieval from the point of view of data mining and knowledge discovery The main novel aspect of the volume is that issues related to the use of fuzzy elements in databases database querying information retrieval etc are presented and discussed from the point of view and for the purpose of data mining and knowledge discovery that are hot topics in recent years This may be useful for both people involved in theoretical research education and even the design and implementation of working computer systems *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 *Handbook of Research on Innovative Database Query Processing Techniques* Yan, Li, 2015-09-25 Research and development surrounding the use of data queries is receiving increased attention from computer scientists and data specialists alike Through the use of query technology large volumes of data in databases can be retrieved and information systems built based on databases can support problem solving and decision making across industries The Handbook of Research on Innovative Database Query Processing Techniques focuses on the growing topic of database query processing methods technologies and applications

Aimed at providing an all inclusive reference source of technologies and practices in advanced database query systems this book investigates various techniques including database and XML queries spatiotemporal data queries big data queries metadata queries and applications of database query systems This comprehensive handbook is a necessary resource for students IT professionals data analysts and academicians interested in uncovering the latest methods for using queries as a means to extract information from databases This all inclusive handbook includes the latest research on topics pertaining to information retrieval data extraction data management design and development of database queries and database and XM queries

Database and Expert Systems Applications Mohamed Ibrahim,Josef Küng,Norman Revell,2003-05-15 The Database and Expert Systems Applications DEXA conferences have established themselves as a platform for bringing together researchers and practitioners from various backgrounds and all regions of the world to exchange ideas experiences and opinions in a friendly and stimulating environment The papers presented at the conference represent recent developments in the field and important steps towards shaping the future of applied computer science and information systems DEXA covers a broad field all aspects of databases knowledge based systems knowledge management web based systems information systems related technologies and their applications Once again there were a good number of submissions out of 183 papers that were submitted the program committee selected 92 to be presented In the first year of this new millennium DEXA has come back to the United Kingdom following events in Vienna Berlin Valencia Prague Athens London Zurich Toulouse Vienna and Florence The past decade has seen several revolutionary developments one of which was the explosion of Internet related applications in the areas covered by DEXA developments in which DEXA has played a role and in which DEXA will continue to play a role in its second decade starting with this conference

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

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

Beyond Databases, Architectures and Structures Stanisław Kozielski,Dariusz Mrozek,Paweł Kasprowski,Bożena Małysiak-Mrozek,Daniel Kostrzewa,2015-04-28 This book constitutes the refereed proceedings of the 11th International Conference entitled Beyond Databases Architectures and Structures BDAS 2015 held in Ustro Poland in May 2015 This book consists of 53 carefully revised selected papers that are assigned to 8 thematic groups database architectures and performance data integration storage and data warehousing ontologies and semantic web artificial intelligence data mining and knowledge discovery image analysis and multimedia mining spatial data analysis database systems development application of database systems

Database Technologies: Concepts, Methodologies, Tools, and Applications Erickson, John,2009-02-28 This reference expands the field of database technologies through four volumes of in depth advanced research articles from nearly 300 of the world s leading professionals 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

Database and Expert Systems Applications Norman Revell,2007-08-21 This volume constitutes the refereed proceedings of the 18th International Conference on Database and Expert Systems Applications held in September 2007 Papers are organized into topical sections covering XML data and information datamining and data warehouses database applications WWW bioinformatics process automation and workflow knowledge management and expert systems database theory query processing and privacy and security

Advances in Databases and Information Systems Silvia Chiusano,Tania Cerquitelli,Robert Wrembel,2022-08-29

This book constitutes the proceedings of the 26th European Conference on Advances in Databases and Information Systems ADBIS 2022 held in Turin Italy in September 2022 The 23 full papers presented together with 5 keynote and tutorial papers were carefully reviewed and selected from 90 submissions The papers are organized in the following topical sections keynote talk and tutorials graph processing time series and data streams on line analytical processing advanced querying performance machine learning data science methods

SQL & NoSQL Databases Andreas Meier, Michael Kaufmann, 2019-07-05 This book offers a comprehensive introduction to relational SQL and non relational NoSQL databases The authors thoroughly review the current state of database tools and techniques and examine coming innovations The book opens with a broad look at data management including an overview of information systems and databases and an explanation of contemporary database types SQL and NoSQL databases and their respective management systems The nature and uses of Big Data A high level view of the organization of data management Data Modeling and Consistency Chapter length treatment is afforded Data Modeling in both relational and graph databases including enterprise wide data architecture and formulas for database design Coverage of languages extends from an overview of operators to SQL and and QBE Query by Example to integrity constraints and more A full chapter probes the challenges of Ensuring Data Consistency covering Multi User Operation Troubleshooting Consistency in Massive Distributed Data Comparison of the ACID and BASE consistency models and more System Architecture also gets from its own chapter which explores Processing of Homogeneous and Heterogeneous Data Storage and Access Structures Multi dimensional Data Structures and Parallel Processing with MapReduce among other topics Post Relational and NoSQL Databases The chapter on post relational databases discusses the limits of SQL and what lies beyond including Multi Dimensional Databases Knowledge Bases and and Fuzzy Databases A final chapter covers NoSQL Databases along with Development of Non Relational Technologies Key Value Column Family and Document Stores XML Databases and Graphic Databases and more The book includes more than 100 tables examples and illustrations and each chapter offers a list of resources for further reading SQL NoSQL Databases conveys the strengths and weaknesses of relational and non relational approaches and shows how to undertake development for big data applications The book benefits readers including students and practitioners working across the broad field of applied information technology This textbook has been recommended and developed for university courses in Germany Austria and Switzerland

Soft Computing Applications for Database Technologies: Techniques and Issues Anbumani, K., 2010-06-30 The digital revolution and the explosive growth of the internet have helped the collection of huge amounts of useful data of diverse characteristics which is a valuable and intangible asset in any business of today This book treats the new emerging discipline of soft computing which exploits this data through tolerance for imprecision and uncertainty to achieve solutions for complex problems Soft computing methodologies include fuzzy sets neural networks genetic algorithms Bayesian belief networks and rough sets which are explored in detail through case studies and in depth research The advent of soft

computing marks a significant paradigm shift in computing with a wide range of applications and techniques which are presented and discussed in the chapters of this book

Database and Expert Systems Applications Trevor Bench-Capon, Giovanni Soda, A Min Tjoa, 2003-07-31 The Database and Expert Systems Applications DEXA conferences bring together researchers and practitioners from all over the world to exchange ideas experiences and opinions in a friendly and stimulating environment The papers are at once a record of what has been achieved and the first steps towards shaping the future of information systems DEXA covers a broad field and all aspects of database knowledge base and related technologies and their applications are represented Once again there were a good number of submissions 241 papers were submitted and of these the programme committee selected 103 to be presented DEXA 99 took place in Florence and was the tenth conference in the series following events in Vienna Berlin Valencia Prague Athens London Zurich Toulouse and Vienna The decade has seen many developments in the areas covered by DEXA developments in which DEXA has played its part I would like to express thanks to all the institutions which have actively supported and made possible this conference namely University of Florence Italy IDG CNR Italy FAW University of Linz Austria Austrian Computer Society DEXA Association In addition we must thank all the people who have contributed their time and effort to make the conference possible Special thanks go to Maria Schweikert Technical University of Vienna M Neubauer and G Wagner FAW University of Linz We must also thank all the members of the programme committee whose careful reviews are important to the quality of the conference

Aspects of Automatic Text Analysis Alexander Mehler, Reinhard Köhler, 2007-06-24 The significance of natural language texts as the prime information structure for the management and dissemination of knowledge is as the rise of the web shows still increasing Making relevant texts available in different contexts is of primary importance for efficient task completion in academic and industrial settings Meeting this demand requires automatic form and content based processing of texts which enables to reconstruct or even to explore the dynamic relationship of language system text event and context type The rise of new application areas disciplines and methods e g text and web mining testify to the importance of this task Moreover the growing area of new media demands the further development of methods of text analysis with respect to their computational linguistic information theoretical and mathematical underpinning This book contributes to this task It collects contributions of authors from a multidisciplinary area who focus on the topic of automatic text analysis from several i e linguistic mathematical and information theoretical perspectives It describes methodological as well as methodical foundations and collects approaches in the field of text and corpus linguistics In this sense it contributes to the computational linguistic and information theoretical grounding of automatic text analysis

Future Directions for Intelligent Systems and Information Sciences Nikola Kasabov, 2000-08-04 This edited volume comprises invited chapters that cover five areas of the current and the future development of intelligent systems and information sciences Half of the chapters were presented as invited talks at the Workshop Future Directions for Intelligent Systems and Information Sciences held in Dunedin New

Zealand 22 23 November 1999 after the International Conference on Neuro Information Processing ICONIPI ANZIISI ANNES 99 held in Perth Australia In order to make this volume useful for researchers and academics in the broad area of information sciences I invited prominent researchers to submit materials and present their view about future paradigms future trends and directions Part I contains chapters on adaptive evolving learning systems These are systems that learn in a life long on line mode and in a changing environment The first chapter written by the editor presents briefly the paradigm of Evolving Connectionist Systems ECOS and some of their applications The chapter by Sung Bae Cho presents the paradigms of artificial life and evolutionary programming in the context of several applications mobile robots adaptive agents of the WWW The following three chapters written by R Duro J Santos and J A Becerra chapter 3 GCoghil chapter 4 Y Maeda chapter 5 introduce new techniques for building adaptive learning robots *New Learning Paradigms in Soft Computing* Lakhmi C. Jain, Janusz Kacprzyk, 2013-06-05 Learning is a key issue in the analysis and design of all kinds of intelligent systems In recent time many new paradigms of automated machine learning have been proposed in the literature Soft computing that has proved to be an effective and efficient tool in so many areas of science and technology seems to offer new qualities in the realm of machine learning too The purpose of this volume is to present some new learning paradigms that have been triggered or at least strongly influenced by soft computing tools and techniques mainly related to neural networks fuzzy logic rough sets and evolutionary computations

This book delves into Knowledge Management In Fuzzy Databases. Knowledge Management In Fuzzy Databases is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Knowledge Management In Fuzzy Databases, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Knowledge Management In Fuzzy Databases
 - Chapter 2: Essential Elements of Knowledge Management In Fuzzy Databases
 - Chapter 3: Knowledge Management In Fuzzy Databases in Everyday Life
 - Chapter 4: Knowledge Management In Fuzzy Databases in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Knowledge Management In Fuzzy Databases. This chapter will explore what Knowledge Management In Fuzzy Databases is, why Knowledge Management In Fuzzy Databases is vital, and how to effectively learn about Knowledge Management In Fuzzy Databases.
 3. In chapter 2, the author will delve into the foundational concepts of Knowledge Management In Fuzzy Databases. This chapter will elucidate the essential principles that need to be understood to grasp Knowledge Management In Fuzzy Databases in its entirety.
 4. In chapter 3, the author will examine the practical applications of Knowledge Management In Fuzzy Databases in daily life. The third chapter will showcase real-world examples of how Knowledge Management In Fuzzy Databases can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Knowledge Management In Fuzzy Databases in specific contexts. This chapter will explore how Knowledge Management In Fuzzy Databases is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Knowledge Management In Fuzzy Databases. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Knowledge Management In Fuzzy Databases.

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