

STUDIES IN FUZZINESS
AND SOFT COMPUTING

in Fuzziness and Soft Computing

Zongmin Ma

Fuzzy Database Modeling of Imprecise and Uncertain Engineering Information



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Fuzzy Database Modeling Studies In Fuzziness And Soft Computing

**Ashish Ghosh, Satchidananda
Dehuri, Susmita Ghosh**



Fuzzy Database Modeling Studies In Fuzziness And Soft Computing:

Fuzzy Database Modeling Adnan Yazici, Roy George, 2013-06-05 Some recent fuzzy database modeling advances for the non traditional applications are introduced in this book The focus is on database models for modeling complex information and uncertainty at the conceptual logical physical design levels and from integrity constraints defined on the fuzzy relations The database models addressed here are the conceptual data models including the ExIFO and ExIFO2 data models the logical database models including the extended NF2 database model fuzzy object oriented database model and the fuzzy deductive object oriented database model Integrity constraints are defined on the fuzzy relations are also addressed A continuing reason for the limited adoption of fuzzy database systems has been performance There have been few efforts at defining physical structures that accomodate fuzzy information A new access structure and data organization for fuzzy information is introduced in this book *Fuzzy Database Modeling of Imprecise and Uncertain Engineering Information*

Zongmin Ma, 2008-09-12 Computer based information technologies have been extensively used to help industries manage their processes and information systems hereby come their nervous center More specially databases are designed to support the data storage processing and retrieval activities related to data management in information systems Database management systems provide efficient task support and database systems are the key to implementing industrial data management Industrial data management requires database technique support Industrial applications however are typically data and knowledge intensive applications and have some unique characteristics that makes their management difficult Besides some new techniques such as Web artificial intelligence and etc have been introduced into industrial applications These unique characteristics and usage of new technologies have put many potential requirements on industrial data management which challenge today's database systems and promote their evolvement Viewed from database technology information modeling in databases can be identified at two levels conceptual data modeling and logical database modeling This results in conceptual semantic data model and logical database model Generally a conceptual data model is designed and then the designed conceptual data model will be transformed into a chosen logical database schema Database systems based on logical database model are used to build information systems for data management Much attention has been directed at conceptual data modeling of industrial information systems Product data models for example can be views as a class of semantic data models i.e

Advances in Fuzzy Object-oriented Databases Zongmin Ma, 2005-01-01 Collecting the latest results from leading researchers in the field this volume provides a single source on major aspects of fuzzy object oriented database modeling conceptual logical and physical as well as details of implementations and applications **Recent Issues**

on Fuzzy Databases Gloria Bordogna, Gabriella Pasi, 2000-09-14 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

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

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

Uncertainty Approaches for Spatial Data Modeling and Processing Janusz Kacprzyk,Frederick E. Petry,Adnan Yazici,2010-02-22 This volume is dedicated to the memory of Professor Ashley Morris who passed away some two years ago Ashley was a close friend of all of us the editors of this volume and was also a Ph D student of one of us We all had a chance to not only fully appreciate and be inspired by his contributions which have had a considerable impact on the entire research community Due to our personal relations with Ashley we also had an opportunity to get familiar with his deep thinking about the areas of his expertise and interests Ashley has been involved since the very beginning of his professional career in database research and practice Notably he introduced first some novel solution in database management systems that could handle imprecise and uncertain data and flexible queries based on imprecisely specified user interests He proposed to use for that purpose fuzzy logic as an effective and efficient tool Later the interests of Ashley moved to ways of how to represent and manipulate more complicated databases involving spatial or temporal objects In this research he discovered and pursued the power of Geographic

Information Systems GISs These two main lines of Ashley's research interests and contributions are reflected in the composition of this volume Basically we collected some significant papers by well known researchers and scholars on the above mentioned topics The particular contributions will now be briefly summarized to help the reader get a view of the topics covered and the contents of the particular contributions

Deep Fusion of Computational and Symbolic Processing Takeshi Furuhashi, Shun'ichi Tano, Hans-Arno Jacobsen, 2012-12-06 Symbolic processing has limitations highlighted by the symbol grounding problem Computational processing methods like fuzzy logic neural networks and statistical methods have appeared to overcome these problems However they also suffer from drawbacks in that for example multi stage inference is difficult to implement Deep fusion of symbolic and computational processing is expected to open a new paradigm for intelligent systems Symbolic processing and computational processing should interact at all abstract or computational levels For this undertaking attempts to combine hybridize and fuse these processing methods should be thoroughly investigated and the direction of novel fusion approaches should be clarified This book contains the current status of this attempt and also discusses future directions

GABCOM & GABMET Gmelin Institut, 1993-07-02 The scientific literature in chemistry and physics abounds with abbreviations of chemical compounds physical methods and mathematical procedures Unfortunately many authors take it for granted that the reader knows the meaning of an abbreviation something quite trivial for a specialist For the less informed reader these abbreviations thus present definite communication problems The Gmelin Institute of Inorganic Chemistry of the Max Planck Society has collected more than 4000 abbreviations for methods and terms from chemistry physics and mathematics and more than 4000 chemical compounds mostly ligands in coordination chemistry and standard reagents for physical and analytical methods GABCOM and GABMET provide an overview enabling readers and authors to check the definition of an abbreviation used by an author and to see whether this abbreviation is already being used for other purposes GABCOM and GABMET are also in preparation in electronic form data file and search software for IBM PC or compatible computers

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

Soft Computing

Applications for Group Decision-making and Consensus Modeling Mikael Collan, Janusz Kacprzyk, 2017-06-30 This book offers a concise introduction and comprehensive overview of the state of the art in the field of decision making and consensus modeling with a special emphasis on fuzzy methods It consists of a collection of authoritative contributions reporting on the decision making process from different perspectives from psychology to social and political sciences from decision sciences to data mining and from computational sciences in general to artificial and computational intelligence and systems Written as a homage to Mario Fedrizzi for his scholarly achievements creative ideas and long lasting services to different scientific communities it introduces key theoretical concepts describes new models and methods and discusses a range of promising real world applications in the field of decision making science It is a timely reference guide and a source of inspiration for advanced students and researchers Uncertainty-Based Information George Klir, Mark

Wierman, 1999-10-19 Information is precious It reduces our uncertainty in making decisions Knowledge about the outcome of an uncertain event gives the possessor an advantage It changes the course of lives nations and history itself Information is the food of Maxwell's demon His power comes from knowing which particles are hot and which particles are cold His existence was paradoxical to classical physics and only the realization that information too was a source of power led to his taming Information has recently become a commodity traded and sold like orange juice or hog bellies Colleges give degrees in information science and information management Technology of the computer age has provided access to information in overwhelming quantity Information has become something worth studying in its own right The purpose of this volume is to introduce key developments and results in the area of generalized information theory a theory that deals with uncertainty based information within mathematical frameworks that are broader than classical set theory and probability theory The volume is organized as follows **Soft Computing for Information Processing and Analysis** Masoud Nikraves, Lofti 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 *Multi-Objective Evolutionary Algorithms for Knowledge Discovery from Databases* Ashish Ghosh, Satchidananda Dehuri, Susmita Ghosh, 2008-02-28 The present volume provides a collection of seven articles containing new and high quality research results demonstrating the significance of Multi objective Evolutionary Algorithms

MOEA for data mining tasks in Knowledge Discovery from Databases KDD These articles are written by leading experts around the world It is shown how the different MOEAs can be utilized both in individual and integrated manner in various ways to efficiently mine data from large databases

Intelligent Systems in Production Engineering and Maintenance Anna Burduk, Edward Chlebus, Tomasz Nowakowski, Agnieszka Tubis, 2018-07-31 The book presents a collection of 103 peer reviewed articles from the Second International Conference on Intelligent Systems in Production Engineering and Maintenance ISPEM 2018 The conference was organized by the Faculty of Mechanical Engineering and CAMT Centre for Advanced Manufacturing Technologies Wroc aw University of Science and Technology and was held in Wroc aw Poland on 17 18 September 2018 The conferences topics included the possibility of using a wide range of intelligent methods in production engineering presenting and discussing new solutions for innovative plants research findings and case studies demonstrating advances in production and maintenance from the point of view of Industry 4 0 particularly applications of intelligent systems methods and tools in production engineering maintenance logistics quality management information systems and product development The book is divided into two parts the first includes papers related to intelligent systems in production engineering while the second is dedicated to special sessions focusing on 1 Computer Aided methods in Production Engineering 2 Mining 4 0 and Intelligent Mining Transportation 3 Modelling and Simulation of Production Processes 4 Multi Faceted Modelling of Networks and Processes 5 Product Design and Product Manufacturing in Industry 4 0 This book is an excellent source of information for scientists in the field of manufacturing engineering and for top managers in production enterprises

Springer Handbook of Computational Intelligence Janusz Kacprzyk, Witold Pedrycz, 2015-05-28 The Springer Handbook for Computational Intelligence is the first book covering the basics the state of the art and important applications of the dynamic and rapidly expanding discipline of computational intelligence This comprehensive handbook makes readers familiar with a broad spectrum of approaches to solve various problems in science and technology Possible approaches include for example those being inspired by biology living organisms and animate systems Content is organized in seven parts foundations fuzzy logic rough sets evolutionary computation neural networks swarm intelligence and hybrid computational intelligence systems Each Part is supervised by its own Part Editor s so that high quality content as well as completeness are assured

Women in Computational Intelligence Alice E Smith, 2022-04-13 This book provides a breadth of innovative and impactful research in the field computational intelligence led by women investigators Topics include intelligent data analytics optimization of complex systems approximation of human reasoning robotic path planning and intelligent control systems These topics touch on many of the technological challenges facing the world today and these solutions by women researcher teams are valuable for their excellence and their non traditional perspective As an important part of the Women in Science and Engineering book series the work highlights the contribution of women leaders in computational intelligence inspiring women and men girls and boys to enter and apply themselves to this exciting multi

disciplinary field **Mining and Control of Network Traffic by Computational Intelligence** Federico Montesino Pouzols, Diego R. Lopez, Joaquim Barros, 2011-02-05 As other complex systems in social and natural sciences as well as in engineering the Internet is hard to understand from a technical point of view Packet switched networks defy analytical modeling The Internet is an outstanding and challenging case because of its fast development unparalleled heterogeneity and the inherent lack of measurement and monitoring mechanisms in its core conception This monograph deals with applications of computational intelligence methods with an emphasis on fuzzy techniques to a number of current issues in measurement analysis and control of traffic in the Internet First the core building blocks of Internet Science and other related networking aspects are introduced Then data mining and control problems are addressed In the first class two issues are considered predictive modeling of traffic load as well as summarization of traffic flow measurements The second class control includes active queue management schemes for Internet routers as well as window based end to end rate and congestion control The practical hardware implementation of some of the fuzzy inference systems proposed here is also addressed While some theoretical developments are described we favor extensive evaluation of models using real world data by simulation and experiments **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 **Relational Methods in Computer Science** Harrie C.M. de Swart, 2003-07-01 This book constitutes the thoroughly refereed joint post proceedings of the 6th International Conference on Relational Methods in Computer Science RelMICS 2001 and the 1st Workshop of COST Action 274 TARSKI Theory and Application of Relational Structures as Knowledge Instruments held in Oisterwijk The Netherlands in October 2001 The 20 revised full papers presented together with an invited paper were carefully reviewed and selected The papers are organized in topical sections on algebraic and logical foundations of real world relations mechanization of relational reasoning and relational scaling and preferences

Fuzzy Database Modeling Studies In Fuzziness And Soft Computing Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Fuzzy Database Modeling Studies In Fuzziness And Soft Computing**," compiled 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 shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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