
**FUZZY LOGIC IN DATA
MODELING**
**Semantics, Constraints,
and Database Design**

by
Guoqing Chen

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Fuzzy Logic In Data Modeling Semantics Constraints And Database Design

Galindo, José



Fuzzy Logic In Data Modeling Semantics Constraints And Database Design:

Fuzzy Logic in Data Modeling Guoqing Chen, 2012-12-06 also in THE KLUWER INTERNATIONAL SERIES ON ASIAN STUDIES IN COMPUTER AND INFORMATION SCIENCE Volume 2 **Fuzzy Databases: Modeling, Design and Implementation** Galindo, José, 2005-10-31 This book includes an introduction to fuzzy logic fuzzy databases and an overview of the state of the art in fuzzy modeling in databases Provided by publisher *Modeling and Management of Fuzzy Semantic RDF Data* Zongmin Ma, Guanfeng Li, Ruizhe Ma, 2022-09-08 This book systemically presents the latest research findings in fuzzy RDF data modeling and management Fuzziness widely exist in many data and knowledge intensive applications With the increasing amount of metadata available efficient and scalable management of massive semantic data with uncertainty is of crucial importance This book goes to great depth concerning the fast growing topic of technologies and approaches of modeling and managing fuzzy metadata with Resource Description Framework RDF format Its major topics include representation of fuzzy RDF data fuzzy RDF graph matching query of fuzzy RDF data and persistence of fuzzy RDF data in diverse databases The objective of the book is to provide the state of the art information to researchers practitioners and postgraduates students who work on the area of big data intelligence and at the same time serve as the uncertain data and knowledge engineering professional as a valuable real world reference Fuzzy Database Modeling with XML Zongmin Ma, 2006-06-15 Fuzzy Database Modeling with XML aims to provide a single record of current research and practical applications in the fuzzy databases This volume is the outgrowth of research the author has conducted in recent years Fuzzy Database Modeling with XML introduces state of the art information to the database research while at the same time serving the information technology professional faced with a non traditional application that defeats conventional approaches The research on fuzzy conceptual models and fuzzy object oriented databases is receiving increasing attention in addition to fuzzy relational database models With rapid advances in network and internet techniques as well the databases have been applied under the environment of distributed information systems It is essential in this case to integrate multiple fuzzy database systems Since databases are commonly employed to store and manipulate XML data additional requirements are necessary to model fuzzy information with XML Secondly this book maps fuzzy XML model to the fuzzy databases Very few efforts at investigating these issues have thus far occurred Fuzzy Database Modeling with XML is designed for a professional audience of researchers and practitioners in industry This book is also suitable for graduate level students in computer science

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 evolution 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 viewed as a class of semantic data models i.e.

Computational Intelligent Systems For Applied Research, Proceedings Of The 5th International Flins Conference (Flins 2002) Pierre D'hondt, Etienne E Kerre, Da Ruan, 2002-07-31 FLINS is an acronym for Fuzzy Logic and Intelligent Technologies in Nuclear Science FLINS 2002 is the fifth in a series of FLINS conferences and covers state of the art research and development in computational intelligence for applied research in general and for nuclear science and engineering in particular This book outlines the trends in computational intelligence in control decision making and nuclear engineering and presents the latest developments of computational intelligent systems in applied research and nuclear applications 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 **Advances in Soft Computing** Jose M. Benitez, Oscar Cordon, Frank Hoffmann, Rajkumar Roy, 2013-03-09 Soft computing embraces methodologies for the development of intelligent systems that have been successfully applied to a large number of real world problems This collection of keynote papers presented at the 7th On line World Conference on Soft Computing in Engineering Design and Manufacturing provides a comprehensive overview of recent advances in fuzzy neural and evolutionary computing techniques and applications in engineering design and manufacturing Features New and highly advanced research results at the forefront of soft computing in engineering design and manufacturing Keynote papers by world renowned researchers in the field A good overview of current soft computing research around the world A collection of methodologies aimed at researchers and professional design and manufacturing engineers who develop and apply intelligent systems in computer engineering Database and Expert Systems Applications Fernando Galindo, Makoto Takizawa, Roland Traunmüller, 2004-10-29 DEXA 2004 the 15th International Conference on Database and Expert Systems Applications was held August 30 September 3 2004 at the University of Zaragoza Spain The quickly growing spectrum of database

applications has led to the establishment of more specialized discussion platforms DaWaK Conference EC Web Conference EGOVConference Trustbus Conference and DEXA Workshop Every DEXA event has its own conference proceedings which were held in parallel with the DEXA Conference also in Zaragoza In your hands are the results of much effort The work begins with the preparation of the submitted papers which then go through the reviewing process The accepted papers are revised to final versions by their authors and are then arranged within the conference program All culminates in the conference itself For this conference 304 papers were submitted and I want to thank to all who contributed to it they are the real base of the conference The program committee and the supporting reviewers produced altogether 942 referee reports in average 3.1 reports per paper and selected 92 papers for presentation At this point we would like to say many thanks to all the institutions that actively supported this conference and made it possible These were University of Zaragoza FAW DEXA Association Austrian Computer Society Computational Intelligence in Theory and Practice Bernd Reusch, Karl-Heinz Temme, 2013-03-20 Computational Intelligence with its roots in Fuzzy Logic Neural Networks and Evolutionary Algorithms has become an important research and application field in computer science in the last decade Methodologies from these areas and combinations of them enable users from engineering business medicine and many more branches to capture and process vague incomplete uncertain and imprecise data and knowledge Many algorithms and tools have been developed to solve problems in the realms of high and low level control information processing diagnostics decision support classification optimisation and many more This book tries to show the impact and feedback between theory and applications of Computational Intelligence highlighted on selected examples

Data Management and Internet Computing for Image/Pattern Analysis David D. Zhang, Xiaobo Li, Zhiyong Liu, 2012-12-06 Data Management and Internet Computing for Image Pattern Analysis focuses on the data management issues and Internet computing aspect of image processing and pattern recognition research The book presents a comprehensive overview of the state of the art providing detailed case studies that emphasize how image and pattern IAP data are distributed and exchanged on sequential and parallel machines and how the data communication patterns in low and higher level IAP computing differ from general numerical computation what problems they cause and what opportunities they provide The studies also describe how the images and matrices should be stored accessed and distributed on different types of machines connected to the Internet and how Internet resource sharing and data transmission change traditional IAP computing Data Management and Internet Computing for Image Pattern Analysis is divided into three parts the first part describes several software approaches to IAP computing citing several representative data communication patterns and related algorithms the second part introduces hardware and Internet resource sharing in which a wide range of computer architectures are described and memory management issues are discussed and the third part presents applications ranging from image coding restoration and progressive transmission Data Management and Internet Computing for Image Pattern Analysis is an excellent reference for researchers and may be

used as a text for advanced courses in image processing and pattern recognition *Intelligent Exploration of the Web* Piotr S. Szczepaniak, Javier Segovia, Lotfi A. Zadeh, 2012-11-08 The Web is the nervous system of information society As such it has a pervasive influence on our daily lives And yet in some ways the Web does not have a high MIQ Machine IQ What can be done to enhance it This is the leitmotif of Intelligent Exploration of the Web IEW a collection of articles co edited by Drs Szczepaniak Segovia Kacprzyk and to a small degree myself The articles that comprise IEW address many basic problems ranging from structure analysis of Internet documents and Web dialogue management to intelligent Web agents for extraction of information and bootstrapping an ontology based information extraction system Among the basic problems one that stands out in importance is the problem of search Existing search engines have many remarkable capabilities But what is not among them is the deduction capability the capability to answer a query by drawing on information which resides in various parts of the knowledge base An example of a query might be How many Ph D degrees in computer science were granted by European universities in 1996 No existing search engine is capable of dealing with queries of comparable or even much lower complexity Basically what we would like to do is to add deduction capability to a search engine with the aim of transforming it into a question answering system or a QI A system for short This is a problem that is of major importance and a challenge that is hard to meet *Domain Modeling-Based Software Engineering* Ruqian Lu, Zhi Jin, 2012-12-06 Many approaches have been proposed to enhance software productivity and reliability These approaches typically fall into three categories the engineering approach the formal approach and the knowledge based approach The optimal gain in software productivity cannot be obtained if one relies on only one of these approaches Thus the integration of different approaches has also become a major area of research No approach can be said to be perfect if it fails to satisfy the following two criteria Firstly a good approach should support the full life cycle of software development Secondly a good approach should support the development of large scale software for real use in many application domains Such an approach can be referred to as a five in one approach The authors of this book have for the past eight years conducted research in knowledge based software engineering of which the final goal is to develop a paradigm for software engineering which not only integrates the three approaches mentioned above but also fulfils the two criteria on which the five in one approach is based Domain Modeling Based Software Engineering A Formal Approach explores the results of this research Domain Modeling Based Software Engineering A Formal Approach will be useful to researchers of knowledge based software engineering students and instructors of computer science and software engineers who are working on large scale projects of software development and want to use knowledge based development methods in their work **Applied Artificial Intelligence** Da Ruan, 2006 FLINS originally an acronym for Fuzzy Logic and Intelligent Technologies in Nuclear Science is now extended to Applied Artificial Intelligence for Applied Research The contributions to the seventh in the series of FLINS conferences contained in this volume cover state of the art research and development in applied artificial intelligence for applied research in general and

for power nuclear engineering in particular *Adaptable and Adaptive Hypermedia Systems* Sherry Y. Chen, George D. Magoulas, 2005-01-01 Annotation Hypermedia systems may be one of the most significant contributions to the Internet in recent years This powerful new technology has revolutionized the delivery of e content through the Internet Adaptable and Adaptive Hypermedia Systems examines both types of new hypermedia systems discussing the benefits impacts and implications of both This book covers the most current issues in the field while providing insight into analytical and architectural aspects of the topic Fully Tuned Radial Basis Function Neural Networks for Flight Control N. Sundararajan, P. Saratchandran, Yan Li, 2013-03-09 Fully Tuned Radial Basis Function Neural Networks for Flight Control presents the use of the Radial Basis Function RBF neural networks for adaptive control of nonlinear systems with emphasis on flight control applications A Lyapunov synthesis approach is used to derive the tuning rules for the RBF controller parameters in order to guarantee the stability of the closed loop system Unlike previous methods that tune only the weights of the RBF network this book presents the derivation of the tuning law for tuning the centers widths and weights of the RBF network and compares the results with existing algorithms It also includes a detailed review of system identification including indirect and direct adaptive control of nonlinear systems using neural networks Fully Tuned Radial Basis Function Neural Networks for Flight Control is an excellent resource for professionals using neural adaptive controllers for flight control applications Nonlinear Control Systems and Power System Dynamics Qiang Lu, Yuanzhang Sun, Shengwei Mei, 2013-04-17 Nonlinear Control Systems and Power System Dynamics presents a comprehensive description of nonlinear control of electric power systems using nonlinear control theory which is developed by the differential geometric approach and nonlinear robust control method This book explains in detail the concepts theorems and algorithms in nonlinear control theory illustrated by step by step examples In addition all the mathematical formulation involved in deriving the nonlinear control laws of power systems are sufficiently presented Considerations and cautions involved in applying nonlinear control theory to practical engineering control designs are discussed and special attention is given to the implementation of nonlinear control laws using microprocessors Nonlinear Control Systems and Power System Dynamics serves as a text for advanced level courses and is an excellent reference for engineers and researchers who are interested in the application of modern nonlinear control theory to practical engineering control designs Automated Biometrics David D. Zhang, 2013-11-11 Biometrics based authentication and identification are emerging as the most reliable method to authenticate and identify individuals Biometrics requires that the person to be identified be physically present at the point of identification and relies on something which you are or you do to provide better security increased efficiency and improved accuracy Automated biometrics deals with physiological or behavioral characteristics such as fingerprints signature palmprint iris hand voice and face that can be used to authenticate a person s identity or establish an identity from a database With rapid progress in electronic and Internet commerce there is also a growing need to authenticate the identity

of a person for secure transaction processing Designing an automated biometrics system to handle large population identification accuracy and reliability of authentication are challenging tasks Currently there are over ten different biometrics systems that are either widely used or under development Some automated biometrics such as fingerprint identification and speaker verification have received considerable attention over the past 25 years and some issues like face recognition and iris based authentication have been studied extensively resulting in successful development of biometrics systems in commercial applications However very few books are exclusively devoted to such issues of automated biometrics Automated Biometrics Technologies and Systems systematically introduces the technologies and systems and explores how to design the corresponding systems with in depth discussion The issues addressed in this book are highly relevant to many fundamental concerns of both researchers and practitioners of automated biometrics in computer and system security

Common Waveform Analysis Yuchuan Wei, Qishan Zhang, 2012-12-06 Common Waveform Analysis which will be of interest to both electrical engineers and mathematicians applies the classic Fourier analysis to common waveforms The following questions are answered Can a signal be considered a superposition of common waveforms with different frequencies How can a signal be decomposed into a series of common waveforms How can a signal best be approximated using finite common waveforms How can a combination of common waveforms that equals a given signal at N uniform points be found Can common waveforms be used in techniques that have traditionally been based on sine cosine functions Common Waveform Analysis represents the most advanced research available to research scientists and scholars working in fields related to the area *Handbook of Research on Fuzzy Information Processing in Databases* Galindo, Jos[unacademy], 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

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