

STUDIES IN FUZZINESS
AND SOFT COMPUTING

on Fuzziness and Soft Computing

Gloria Bordogna
Gabriella Pasi
Editors

Recent Issues on Fuzzy Databases



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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

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

Recent Issues on Fuzzy Databases Gloria Bordogna, Gabriella Pasi, 2014-01-15 *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 **Fuzzy Databases** Frederick E. Petry, 2012-12-06 This volume presents the results of approximately 15 years of work from researchers around the world on the use of fuzzy set theory to represent imprecision in databases The maturity of the research in the discipline and the recent developments in commercial industrial fuzzy databases provided an opportunity to produce this survey In this introduction we will describe briefly how fuzzy databases fit into the overall design of database systems and then overview the organization of the text FUZZY DATABASE LANDSCAPE The last five years have been witness to a revolution in the database research community The dominant data models have changed and the consensus on what constitutes worthwhile research is in flux Also at this time it is possible to gain a perspective on what has been accomplished in the area of fuzzy databases Therefore now is an opportune time to take stock of the past and establish a framework A framework should assist in evaluating future research through a better understanding of the different aspects of imprecision that a database can model 1 1 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 On Fuzziness Rudolf Seising, Enric Trillas, Claudio Moraga, Settimo Termini, 2013-01-12 The notion of Fuzziness stands as one of the really new concepts that have recently enriched the world of Science Science grows not only through technical and formal advances on one side and useful applications on the other side but also as consequence of the introduction and assimilation of new concepts in its corpus These in turn produce new developments and applications And this is what Fuzziness one of the few new concepts arisen in the XX Century has been doing so far This book aims at paying homage to Professor Lotfi A Zadeh the father of fuzzy logic and also at giving credit to his exceptional work and personality In a way this is reflected in the variety of contributions collected in the book In some of them the authors chose to speak of personal meetings with Lotfi in others they discussed how certain papers of Zadeh were able to open for them a new research horizon Some contributions documented results obtained from the author s after taking inspiration from a particular idea of Zadeh thus implicitly acknowledging him Finally there are contributions of several third generation fuzzysists or softies who were firstly led into the world of Fuzziness by a disciple of Lotfi Zadeh who following his example took care of opening for them a new road in science Rudolf Seising is

Adjoint Researcher at the European Centre for Soft Computing in Mieres Asturias Spain Enric Trillas and Claudio Moraga are Emeritus Researchers at the European Centre for Soft Computing Mieres Asturias Spain Settimo Termini is Professor of Theoretical Computer Science at the University of Palermo Italy and Affiliated Researcher at the European Centre for Soft Computing Mieres Asturias Spain

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

Flexible Databases Supporting Imprecision and Uncertainty Gloria Bordogna, Giuseppe Psaila, 2007-06-02 This volume offers the advice of selected expert contributors on the application of heterogeneous methods for managing uncertainty and imprecision in databases It contains both survey chapters on classic topics such as flexible querying in databases and up to date information on database models to represent imperfect data Further it includes specific contributions on uncertainty management in database integration and in representing and querying semistructured and spatial data

Information Processing and Management of Uncertainty in Knowledge-Based Systems Eyke Hüllermeier, Rudolf Kruse, Frank Hoffmann, 2010-06-30 This book constitutes the proceedings of the 13th conference on Information Processing and Management of Uncertainty in Knowledge Based Systems held in Dortmund Germany in June 2010

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

Relational Methods for Computer Science Applications Ewa Orlowska, Andrzej Szalas, 2013-11-11 This volume addresses all current aspects of relational methods and their applications in computer science It presents a broad variety of fields and issues in which theories of relations provide conceptual or technical tools The contributions address such subjects as relational methods in programming relational constraints relational methods in linguistics and spatial reasoning relational modelling of uncertainty All contributions provide the readers with new and original developments in the respective fields The reader thus gets an interdisciplinary spectrum of the state of the art of relational methods and implementation oriented solutions of problems related to these areas

Fuzziness in Database Management Systems Patrick Bosc, 2013-11-27 The volume Fuzziness in Database Management Systems is a highly informative well organized and up to date collection of contributions authored by

many of the leading experts in its field Among the contributors are the editors Professors Patrick Bose and Janusz Kacprzyk both of whom are known internationally The book is like a movie with an all star cast The issue of fuzziness in database management systems has a long history It begins in 1968 and 1971 when I spent my sabbatical leaves at the IBM Research Laboratory in San Jose California as a visiting scholar During these periods I was associated with Dr E F Codd the father of relational models of database systems and came in contact with the developers of IBM's System R and SQL These associations and contacts at a time when the methodology of relational models of data was in its formative stages made me aware of the basic importance of such models and the desirability of extending them to fuzzy database systems and fuzzy query languages This perception was reflected in my 1973 IFIP report which led to the paper on the concept of a linguistic variable and later to the paper on the meaning representation language PRUF Possibilistic Relational Universal Fuzzy More directly related to database issues during that period were the theses of my students V Tahani J Yang A Bolour M Shen and R Sheng and many subsequent reports by both graduate and undergraduate students at Berkeley

Rough Set Methods and Applications

Lech Polkowski, Shusaku Tsumoto, Tsau Y. Lin, 2000-11-16 Rough set approach to reasoning under uncertainty is based on inducing knowledge representation from data under constraints expressed by discernibility or more generally similarity of objects Knowledge derived by this approach consists of reducts decision or association rules dependencies templates or classifiers This monograph presents the state of the art of this area The reader will find here a deep theoretical discussion of relevant notions and ideas as well as rich inventory of algorithmic and heuristic tools for knowledge discovery by rough set methods An extensive bibliography will help the reader to get an acquaintance with this rapidly growing area of research

Computational Intelligence in Games Norio Baba, 2012-08-11 The most powerful computers in the world are not only used for scientific research defence and business but also in game playing Computer games are a multi billion dollar industry Recent advances in computational intelligence paradigms have generated tremendous interest among researchers in the theory and implementation of games Game theory is a branch of operational research dealing with decision theory in a competitive situation Game theory involves the mathematical calculations and heuristics to optimize the efficient lines of play This book presents a sample of the most recent research on the application of computational intelligence techniques in games This book contains 7 chapters The first chapter by Chen Fanelli Castellano and Jain is an introduction to computational intelligence paradigms It presents the basics of the main constituents of computational intelligence paradigms including knowledge representation probability based approaches fuzzy logic neural networks genetic algorithms and rough sets In the second chapter Chellapilla and Fogel present the evolution of a neural network to play checkers without human expertise This chapter focuses on the use of a population of neural networks where each network serves as an evaluation function to describe the quality of the current board position After only a little more than 800 generations the evolutionary process has generated a neural network that can play checkers at the expert level as designated by the u s

Chess Federation rating system The program developed by the authors has also competed well against commercially available software

Soft Computing for Control of Non-Linear Dynamical Systems Oscar Castillo, Patricia Melin, 2012-12-06 This book presents a unified view of modelling simulation and control of non linear dynamical systems using soft computing techniques and fractal theory Our particular point of view is that modelling simulation and control are problems that cannot be considered apart because they are intrinsically related in real world applications Control of non linear dynamical systems cannot be achieved if we don't have the appropriate model for the system On the other hand we know that complex non linear dynamical systems can exhibit a wide range of dynamic behaviors ranging from simple periodic orbits to chaotic strange attractors so the problem of simulation and behavior identification is a very important one Also we want to automate each of these tasks because in this way it is more easy to solve a particular problem A real world problem may require that we use modelling simulation and control to achieve the desired level of performance needed for the particular application

Computational Intelligence for Knowledge-Based System Design Eyke Hüllermeier, Rudolf Kruse, Frank Hoffmann, 2010-06-30 The book constitutes the refereed proceedings of the 13th International Conference on Information Processing and Management of Uncertainty in Knowledge Based Systems IPMU 2010 held in Dortmund Germany from June 28 July 2 2010 The 77 revised full papers were carefully reviewed and selected from 320 submissions and reflect the richness of research in the field of Computational Intelligence and represent developments on topics as machine learning data mining pattern recognition uncertainty handling aggregation and fusion of information as well as logic and knowledge processing

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

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

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