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Gloria Bordogna  
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# Recent Issues on Fuzzy Databases



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# Recent Ibues On Fuzzy Databases

**Gloria Bordogna, Gabriella Pasi**



## **Recent Issues On Fuzzy Databases:**

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

**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

**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

Recent Advances in Decision Making Elisabeth Rakus-Andersson, Ronald R. Yager, Nikhil Ichalkaranje, 2009-08-05 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

**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

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 Orłowska, 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

**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

*Applying Soft Computing in Defining Spatial Relations* Pascal Matsakis, Les M. Sztandera, 2012-08-13 Geometric

properties and relations play central roles in the description and processing of spatial data The properties and relations studied by mathematicians usually have precise definitions but verbal descriptions often involve imprecisely defined concepts such as elongatedness or proximity The methods used in soft computing provide a framework for formulating and manipulating such concepts This volume contains eight papers on the soft definition and manipulation of spatial relations and gives a comprehensive summary on the subject

**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

**Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications** Wang, John,2008-05-31 In recent years the science of managing and analyzing large datasets has emerged as a critical area of research In the race to answer vital questions and make knowledgeable decisions impressive amounts of data are now being generated at a rapid pace increasing the opportunities and challenges associated with the ability to effectively analyze this data

**Radial Basis Function Networks 2** Robert J. Howlett,Lakhmi C. Jain,2013-03-19 The Radial Basis Function RBF network has gained in popularity in recent years This is due to its desirable properties in classification and functional approximation applications accompanied by training that is more rapid than that of many other neural network techniques RBF network research has focused on enhanced training algorithms and variations on the basic architecture to improve the performance of the network In addition the RBF network is proving to be a valuable tool in a diverse range of applications areas for example robotics biomedical engineering and the financial sector The two title series Theory and Applications of Radial Basis Function Networks provides a comprehensive survey of recent RBF network research This volume New Advances in Design contains a wide range of applications in the laboratory and case studies describing current use The sister volume to this one Recent Developments in Theory and Applications covers advances in training algorithms variations on the architecture and function of the basis neurons and hybrid paradigms The combination of the two volumes will prove extremely useful to practitioners in the field engineers researchers students and technically accomplished managers

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