

Foundations
in Fuzziness
and Soft Computing

in Fuzziness and Soft Computing

Uncertainty in Multi-Source Databases



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Uncertainty In Multi Source Databases Studies In Fuzziness And Soft Computing

Ying Liu



Uncertainty In Multi Source Databases Studies In Fuzziness And Soft Computing:

Uncertainty in Multi-Source Databases Premchand S. Nair, 2003-06-04 Database and database systems have become an essential part of everyday life such as in banking activities online shopping or reservations of airline tickets and hotels These trends place more demands on the capabilities of future database systems which need to evolve into decision making systems based on data from multiple sources with varying reliability In this book a model for the next generation of database systems is presented It is demonstrated how to quantize favorable and unfavorable qualitative facts so that they can be stored and processed efficiently as well as how to use the reliability of the contributing sources in our decision makings The concept of a confidence index set ciset is introduced in order to mathematically model the above issues A simple introduction to relational database systems is given allowing anyone with no background in database theory to appreciate the further contents of this work especially the extended relational operations and semantics of the ciset relational database model *Advances in Bayesian Networks* José A. Gámez, Serafin Moral, Antonio Salmerón Cerdan, 2013-06-29 In recent years probabilistic graphical models especially Bayesian networks and decision graphs have experienced significant theoretical development within areas such as artificial intelligence and statistics This carefully edited monograph is a compendium of the most recent advances in the area of probabilistic graphical models such as decision graphs learning from data and inference It presents a survey of the state of the art of specific topics of recent interest of Bayesian Networks including approximate propagation abductive inferences decision graphs and applications of influence In addition *Advances in Bayesian Networks* presents a careful selection of applications of probabilistic graphical models to various fields such as speech recognition meteorology or information retrieval Advances in Fuzzy Object-Oriented Databases: Modeling and Applications Ma, Zongmin, 2004-11-30 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 Fuzzy Statistics James J. Buckley, 2013-11-11 1 1 Introduction This book is written in four major divisions The first part is the introductory chapters consisting of Chapters 1 and 2 In part two Chapters 3 11 we develop fuzzy estimation For example in Chapter 3 we construct a fuzzy estimator for the mean of a normal distribution assuming the variance is known More details on fuzzy estimation are in Chapter 3 and then after Chapter 3 Chapters 4 11 can be read independently Part three Chapters 12 20 are on fuzzy hypothesis testing For example in Chapter 12 we consider the test $H_0: \mu = \mu_0$ versus $H_1: \mu \neq \mu_0$ where μ is the mean of a normal distribution with known variance but we use a fuzzy number from Chapter 3 estimator of μ in the test statistic More details on fuzzy hypothesis testing are in Chapter 12 and then after Chapter 12 Chapters 13 20 may be read independently Part four Chapters 21 27 are on fuzzy regression and fuzzy prediction We start with fuzzy correlation in Chapter 21 Simple linear regression is the topic in Chapters 22 24 and Chapters 25 27 concentrate on multiple linear regression Part two fuzzy estimation is used in Chapters 22 and 25 and part 3 fuzzy hypothesis testing is employed in

Chapters 24 and 27 Fuzzy prediction is contained in Chapters 23 and 26 A most important part of our models in fuzzy statistics is that we always start with a random sample producing crisp non fuzzy data

Formal Languages and Applications Carlos Martin-Vide, Victor Mitran, Gheorghe Păun, 2013-03-09 Formal Languages and Applications provides a comprehensive study aid and self tutorial for graduates students and researchers The main results and techniques are presented in an readily accessible manner and accompanied by many references and directions for further research This carefully edited monograph is intended to be the gateway to formal language theory and its applications so it is very useful as a review and reference source of information in formal language theory

Evolutionary Computations Keigo Watanabe, M.M.A. Hashem, 2012-11-02 Evolutionary computation a broad field that includes genetic algorithms evolution strategies and evolutionary programming has proven to offer well suited techniques for industrial and management tasks therefore receiving considerable attention from scientists and engineers during the last decade This monograph develops and analyzes evolutionary algorithms that can be successfully applied to real world problems such as robotic control Although of particular interest to robotic control engineers Evolutionary Computations also may interest the large audience of researchers engineers designers and graduate students confronted with complicated optimization tasks

[Applications of Learning Classifier Systems](#) Larry Bull, 2012-08-13 The field called Learning Classifier Systems is populated with romantics Why shouldn t it be possible for computer programs to adapt learn and develop while interacting with their environments In particular why not systems that like organic populations contain competing perhaps cooperating entities evolving together John Holland was one of the earliest scientists with this vision at a time when so called artificial intelligence was in its infancy and mainly concerned with preprogrammed systems that didn t learn that like organisms had sensors took Instead Holland envisaged systems actions and had rich self generated internal structure and processing In so doing he foresaw and his work prefigured such present day domains as reinforcement learning and embedded agents that are now displacing the older standard Af One focus was what Holland called classifier systems sets of competing rule like classifiers each a hypothesis as to how best to react to some aspect of the environment or to another rule The system embracing such a rule popu lation would explore its available actions and responses rewarding and rating the active rules accordingly Then good classifiers would be selected and re produced mutated and even crossed a la Darwin and genetics steadily and reliably increasing the system s ability to cope

The British National Bibliography Arthur James Wells, 2009

Interfaces, 2004 Seeks to improve communication between managers and professionals in OR MS

Smart Engineering System Design Cihan H. Dagli, 2005 The newest volume in this series presents refereed papers in the following categories and their applications in the engineering domain Neural Networks Complex Networks Evolutionary Programming Data Mining Fuzzy Logic Adaptive Control Pattern Recognition Smart Engineering System Design These papers are intended to provide a forum for researchers in the field to exchange ideas on smart engineering system design

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Electrical and Electronics Engineers,1997 **Joint 9th IFSA World Congress and 20th NAFIPS International Conference** Michael H. Smith,W. A. Gruver,Lawrence O. Hall,2001 **International Aerospace Abstracts** ,1998
 Fulltext Sources Online ,2007-07 Proceedings ,1997 Metrics and quality assurance knowledge and logic based systems object orientated techniques validation and verification distributed and mobile systems software design methodology software process user interaction and testing software are some of the areas examined in this book *Library & Information Science Abstracts* ,2007 *Water Desalination Technologies in the ESCWA Member Countries* United Nations. Economic and Social Commission for Western Asia,2001 **Hydrology and Water Resources in Arizona and the Southwest** ,2006
 Journal of the American Society for Information Science American Society for Information Science,1996
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