

**STUDIES IN FUZZINESS
AND SOFT COMPUTING**

Ewa Orłowska · Andrzej Szalas
Editors

Relational Methods for Computer Science Applications



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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 ReIMICS 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 Ewa Orłowska on Relational Methods in Logic and Computer Science Joanna Golińska-Pilarek, Michał Zawidzki, 2018-12-08 This book is a tribute to Professor Ewa Orłowska a Polish logician who was celebrating the 60th year of her scientific career in 2017 It offers a collection of contributed papers by different authors and covers the most important areas of her research Prof Orłowska made significant contributions to many fields of logic such as proof theory algebraic methods in logic and knowledge representation and her work has been published in 3 monographs and over 100 articles in internationally acclaimed journals and conference proceedings The book also includes Prof Orłowska's autobiography bibliography and a dialogue between her and the editors of the volume as well as contributors' biographical notes and is suitable for scholars and students of logic who are interested in understanding more about Prof Orłowska's work Relational Methods in Computer Science Wendy MacCaull, Michael Winter, Ivo Düntsch, 2006-07-04 This book constitutes the thoroughly refereed joint postproceedings of the 8th International Seminar on Relational Methods in Computer Science the 3rd International Workshop on Applications of Kleene Algebra and the Workshop of COST Action 274 The 17 revised full papers presented together with 3 invited papers address foundational and methodological aspects of the calculi of relations and Kleene algebra and their application in various areas of computer science and information processing Theory and Applications of Relational Structures as Knowledge Instruments II Harrie de Swart, 2006-12-15 This book constitutes the major results of the EU COST European Cooperation in the field of Scientific and Technical Research Action 274 TARSKI Theory and Applications of Relational Structures as Knowledge Instruments running from July 2002 to June 2005 The papers are devoted to further understanding of interdisciplinary issues involving relational reasoning by addressing relational structures and the use of relational methods in applicable object domains *Dual Tableaux: Foundations, Methodology, Case Studies* Ewa Orłowska, Joanna Golińska-Pilarek, 2012-01-07 This book presents logical foundations of dual tableaux together with a number of their applications both to logics traditionally dealt with in mathematics and philosophy such as modal intuitionistic relevant and many valued logics and to various applied theories of computational logic such as temporal reasoning spatial reasoning fuzzy set based reasoning rough set based reasoning order of magnitude reasoning reasoning about programs threshold logics logics of conditional decisions The distinguishing feature of most of these applications is that the

corresponding dual tableaux are built in a relational language which provides useful means of presentation of the theories In this way modularity of dual tableaux is ensured We do not need to develop and implement each dual tableau from scratch we should only extend the relational core common to many theories with the rules specific for a particular theory

Computational Intelligence Systems and Applications Marian B. Gorzalczy, 2012-12-06 Traditional Artificial Intelligence AI systems adopted symbolic processing as their main paradigm Symbolic AI systems have proved effective in handling problems characterized by exact and complete knowledge representation Unfortunately these systems have very little power in dealing with imprecise uncertain and incomplete data and information which significantly contribute to the description of many real world problems both physical systems and processes as well as mechanisms of decision making Moreover there are many situations where the expert domain knowledge the basis for many symbolic AI systems is not sufficient for the design of intelligent systems due to incompleteness of the existing knowledge problems caused by different biases of human experts difficulties in forming rules etc In general problem knowledge for solving a given problem can consist of an explicit knowledge e g heuristic rules provided by a domain an implicit hidden knowledge buried in past experience expert and numerical data A study of huge amounts of these data collected in databases and the synthesizing of the knowledge encoded in them also referred to as knowledge discovery in data or data mining can significantly improve the performance of the intelligent systems designed

Industrial Applications of Soft Computing Kauko Leiviskä, 2013-11-11 Applications of Soft Computing have recently increased and methodological development has been strong The book is a collection of new interesting industrial applications introduced by several research groups and industrial partners It describes the principles and results of industrial applications of Soft Computing methods and introduces new possibilities to gain technical and economic benefits by using this methodology The book shows how fuzzy logic and neural networks have been used in the Finnish paper and metallurgical industries putting emphasis on processes applications and technical and economic results

Dynamical Aspects in Fuzzy Decision Making Yuji Yoshida, 2013-06-05 The concept of fuzziness inspired by Zadeh 1965 brings us fruitful results when it is applied to problems in decision making Recently problems in fuzzy decision making are getting more complex and one of the most complex factors is dynamics in systems Dynamical approach to fuzzy decision making has been proposed by Bellman and Zadeh's celebrated paper Decision making in a fuzzy environment 1970 The idea has developed into fuzzy mathematical programming and has been applied in many fields including management science operations research control theory engineering systems analysis computer science mathematical finance etc Dynamic programming advocated in Bellman's book Dynamic programming 1957 is one of the most powerful tools to deal with dynamics in systems and Bellman and Zadeh has proposed the optimality principle in fuzzy decision making by 1970 introducing fuzzy dynamic programming Fuzzy dynamic programming and fuzzy mathematical programming has been making remarkable progress after they were given life by Bellman and Zadeh's paper 1970 In this

volume various kinds of dynamics not only time but also structure of systems are considered This volume contains ten reviewed papers which deal with dynamics in theory and applications and whose topics are potentially related to dynamics and are expected to develop dynamical study in near future first fuzzy dynamic programming is reviewed from a viewpoint of its origin and consider its development in theory and applications *Soft Computing for Risk Evaluation and Management* Da Ruan, Mario Fedrizzi, 2012-08-10 Risk is a crucial element in virtually all problems people in diverse areas face in their activities It is impossible to find adequate models and solutions without taking it into account Due to uncertainty and complexity in those problems traditional hard tools and techniques may be insufficient for their formulation and solution This is the first book in the literature that shows how soft computing methods fuzzy logic neural networks genetic algorithms etc can be employed to deal with various problems related to risk analysis evaluation and management in various fields of technology environment and finance **Fuzzy Logic in Medicine** Senen Barro, Roque Marin, 2013-03-20 To say that Fuzzy Logic in Medicine or FLM for short is an important addition to the literature of fuzzy logic and its applications is an understatement Edited by two prominent informaticians Professors S Barro and R Marin it is one of the first books in its field Between its covers FLM presents authoritative expositions of a wide spectrum of medical and biological applications of fuzzy logic ranging from image classification and diagnostics to anaesthesia control and risk assessment of heart diseases As the editors note in the preface recognition of the relevance of fuzzy set theory and fuzzy logic to biological and medical systems has a long history In this context particularly worthy of note is the pioneering work of Professor Klaus Peter Adlassnig of the University of Vienna School of Medicine However it is only within the past decade that we began to see an accelerating growth in the visibility and importance of publications falling under the rubric of fuzzy logic in medicine and biology a leading example of which is the Journal of the Biomedical Fuzzy Systems Association in Japan Why did it take so long for this to happen First a bit of history Fuzzy Reasoning in Decision Making and Optimization Christer Carlsson, Robert Fuller, 2012-08-27 Many decision making tasks are too complex to be understood quantitatively however humans succeed by using knowledge that is imprecise rather than precise Fuzzy logic resembles human reasoning in its use of imprecise information to generate decisions Unlike classical logic which requires a deep understanding of a system exact equations and precise numeric values fuzzy logic incorporates an alternative way of thinking which allows modeling complex systems using a higher level of abstraction originating from our knowledge and experience Fuzzy logic allows expressing this knowledge with subjective concepts such as very big and a long time which are mapped into exact numeric ranges Since knowledge can be expressed in a more natural way by using fuzzy sets many decision and engineering problems can be greatly simplified Fuzzy logic provides an inference morphology that enables approximate human reasoning capabilities to be applied to knowledge based systems The theory of fuzzy logic provides a mathematical strength to capture the uncertainties associated with human cognitive processes such as thinking and reasoning The conventional approaches to knowledge representation lack

the means for representating the meaning of fuzzy concepts As a consequence the approaches based on first order logic do not provide an appropriate conceptual framework for dealing with the representation of commonsense knowledge since such knowledge is by its nature both lexically imprecise and non categorical *Fuzzy Modeling and Control* Andrzej Piegat,2013-03-19 In the last ten years a true explosion of investigations into fuzzy modeling and its applications in control diagnostics decision making optimization pattern recognition robotics etc has been observed The attraction of fuzzy modeling results from its intelligibility and the high effectiveness of the models obtained Owing to this the modeling can be applied for the solution of problems which could not be solved till now with any known conventional methods The book provides the reader with an advanced introduction to the problems of fuzzy modeling and to one of its most important applications fuzzy control It is based on the latest and most significant knowledge of the subject and can be used not only by control specialists but also by specialists working in any field requiring plant modeling process modeling and systems modeling e g economics business medicine agriculture and meteorology Theory and Applications of Relational Structures as Knowledge Instruments H. C. M. de Swart,2003-12-16 Relational structures abound in our daily environment relational databases data mining scaling procedures preference relations etc As the documentation of scientific results achieved within the European COST Action 274 TARSKI this book advances the understanding of relational structures and the use of relational methods in various application fields The 12 revised full papers were carefully reviewed and selected for presentations The papers are devoted to mechanization of relational reasoning relational scaling and preferences and algebraic and logical foundations of real world relations Rough Sets and Intelligent Systems Paradigms Marzena Kryszkiewicz,2007-06-18 This book constitutes the refereed proceedings of the International Conference on Rough Sets and Emerging Intelligent Systems Paradigms RSEISP 2007 held in Warsaw Poland in June 2007 dedicated to the memory of Professor Zdzislaw Pawlak The 73 revised full papers papers presented together with 2 keynote lectures and 11 invited papers were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on foundations of rough sets foundations and applications of fuzzy sets granular computing algorithmic aspects of rough sets rough set applications rough fuzzy approach information systems and rough sets data and text mining machine learning hybrid methods and applications multiagent systems applications in bioinformatics and medicine multimedia applications as well as web reasoning and human problem solving **Soft Computing Agents** Salvatore Sessa,2013-03-20 In the existing literature the intersection of agent technology with soft computing is a very recent and attractive issue The book is devoted to a unifying perspective of this topic It contains contributions by well known authors whose expertise is universally recognized in these crossing areas Particular emphasis is devoted to advanced research projects involved with Web related technologies Fundamental topics explored in this volume are formal theories and logics to represent and handle imprecise communication acts among communities of agents soft computing approaches to define distributed problem solving techniques to represent and reason

about large scale control systems decomposition of a complex system into autonomous or semiautonomous agents through evolutionary models enrichment of agent programming paradigm for cooperative soft computing processing

Propositional, Probabilistic and Evidential Reasoning Weiru Liu, 2013-06-05 How to draw plausible conclusions from uncertain and conflicting sources of evidence is one of the major intellectual challenges of Artificial Intelligence It is a prerequisite of the smart technology needed to help humans cope with the information explosion of the modern world In addition computational modelling of uncertain reasoning is a key to understanding human rationality Previous computational accounts of uncertain reasoning have fallen into two camps purely symbolic and numeric This book represents a major advance by presenting a unifying framework which unites these opposing camps The Incidence Calculus can be viewed as both a symbolic and a numeric mechanism Numeric values are assigned indirectly to evidence via the possible worlds in which that evidence is true This facilitates purely symbolic reasoning using the possible worlds and numeric reasoning via the probabilities of those possible worlds Moreover the indirect assignment solves some difficult technical problems like the combination of dependent sources of evidence which had defeated earlier mechanisms Weiru Liu generalises the Incidence Calculus and then compares it to a succession of earlier computational mechanisms for uncertain reasoning Dempster Shafer Theory Assumption Based Truth Maintenance Probabilistic Logic Rough Sets etc She shows how each of them is represented and interpreted in Incidence Calculus The consequence is a unified mechanism which includes both symbolic and numeric mechanisms as special cases It provides a bridge between symbolic and numeric approaches retaining the advantages of both and overcoming some of their disadvantages

35 Years of Fuzzy Set Theory Chris Cornelis, Glad Deschrijver, Mike Nachtegaele, Steven Schockaert, Yun Shi, 2010-10-14 This book is a tribute to Etienne E Kerre on the occasion of his retirement on October 1st 2010 after being active for 35 years in the field of fuzzy set theory It gathers contributions from researchers that have been close to him in one way or another during his long and fruitful career Besides a foreword by Lotfi A Zadeh it contains 13 chapters on both theoretical and applied topics in fuzzy set theory divided in three parts 1 logics and connectives 2 data analysis and 3 media applications The first part deals with fuzzy logics and with operators on extensions of fuzzy sets Part 2 deals with fuzzy methods in rough set theory formal concept analysis decision making and classification The last part discusses the use of fuzzy methods for representing and manipulating media objects such as images and text documents The diversity of the topics that are covered reflect the diversity of Etienne's research interests and indeed the diversity of current research in the area of fuzzy set theory

Granular Computing Witold Pedrycz, 2013-06-05 Granular Computing is concerned with constructing and processing carried out at the level of information granules Using information granules we comprehend the world and interact with it no matter which intelligent endeavor this may involve The landscape of granular computing is immensely rich and involves set theory interval mathematics fuzzy sets rough sets random sets linked together in a highly synergetic environment This volume is a first

comprehensive treatment of this emerging paradigm and embraces its fundamentals underlying methodological framework and a sound algorithmic environment The panoply of applications covered includes system identification telecommunications linguistics and music processing Written by experts in the field this volume will appeal to all developing intelligent systems either working at the methodological level or interested in detailed system realization

New Learning Paradigms in Soft Computing Lakhmi C. Jain, Janusz Kacprzyk, 2013-06-05 Learning is a key issue in the analysis and design of all kinds of intelligent systems In recent time many new paradigms of automated machine learning have been proposed in the literature Soft computing that has proved to be an effective and efficient tool in so many areas of science and technology seems to offer new qualities in the realm of machine learning too The purpose of this volume is to present some new learning paradigms that have been triggered or at least strongly influenced by soft computing tools and techniques mainly related to neural networks fuzzy logic rough sets and evolutionary computations

Soft Computing in Industrial Applications Yukinori Suzuki, Seppo J. Ovaska, Takeshi Furuhashi, Rajkumar Roy, Yasuhiko Dote, 2012-12-06 This book contains recent theoretical innovations and a comprehensive collection of industrial applications in the emerging field of Soft Computing Soft computing is a new form of artificial intelligence and it consists of four core methodologies Fuzzy Computing Neuro Computing Evolutionary Computation and Probabilistic Computing These individual techniques are clearly complementary or synergistic rather than competitive Therefore it is a common practice to combine two or three methodologies when solving complex problems Also the systematic fusion of soft computing and hard computing is a highly potential alternative to be considered Soft computing methodologies are suitable for various real world applications because the available information and system knowledge are often imprecise uncertain or partially even incorrect To handle such demanding conditions and obtain the required robustness with pure hard computing would typically be either very difficult or expensive This book is a unique collection of technical articles providing a thorough overview of the state of the art theory and industrial applications The core articles on evolutionary computation fuzzy computing and neuro computing are of particular interest to researchers and practicing engineers

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