Ewa Orlowska · Andrzej Szalas

Editors

Relational Methods for Computer Science Applications

Relational Methods For Computer Science Applications Studiesin Fuzzineb And

Joanna Golińska-Pilarek,Michał Zawidzki

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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 RelMICS 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 Or owska 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 Or owska 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 Or owska s autobiography bibliography and a trialogue 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 Or owska 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   **Computational Intelligence Systems and Applications** Marian B. Gorzalczany,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

Dual Tableaux: Foundations, Methodology, Case Studies Ewa Orlowska,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   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   *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   **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 In 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

Neuro-Fuzzy Architectures and Hybrid Learning Danuta Rutkowska,2012-11-13 The advent of the computer age has set in motion a profound shift in our perception of science its structure its aims and its evolution Traditionally the principal domains of science were and are considered to be mathe matics physics chemistry biology astronomy and related disciplines But today and to an increasing extent scientific progress is being driven by a quest for machine intelligence for systems which possess a high MIQ Machine IQ and can perform a wide variety of physical and mental tasks with minimal human intervention The role model for intelligent systems is the human mind The influ ence of the human mind as a role model is clearly visible in the methodolo gies which have emerged mainly during the past two decades for the con ception design and utilization of intelligent systems At the center of these methodologies are fuzzy logic FL neurocomputing NC evolutionary computing EC probabilistic computing PC chaotic computing CC and machine learning ML Collectively these methodologies constitute what is called soft computing SC In this perspective soft computing is basically a coalition of methodologies which collectively provide a body of concepts and techniques for automation of reasoning and decision making in an environment of imprecision uncertainty and partial truth *Statistical Modeling, Analysis and Management of Fuzzy Data* Carlo Bertoluzza,Maria A. Gil,Dan A. Ralescu,2012-11-02 Statistical Modeling Analysis and Management of Fuzzy Data or SMFD for short is an important contribution to a better understanding of a basic issue an issue which has been controversial and still is though to a lesser degree In substance the issue is are fuzziness and randomness distinct or coextensive facets of uncertainty Are the theories of fuzziness and random ness competitive or complementary In SMFD these and related issues are addressed with rigor authority and insight by prominent contributors drawn in the main from probability theory fuzzy set theory and data analysis com munities First a historical perspective The almost simultaneous births close to half a century ago of statistically based information theory and cybernetics were two major events which marked the beginning of the steep ascent of probability theory and statistics in visibility influence and importance I was a student when information theory and cybernetics were born and what is etched in my memory are the fascinating lectures by Shannon and Wiener in which they sketched their visions of the coming era of machine intelligence and automation of reasoning and decision processes What I heard in those lectures inspired one of my first papers 1950 An Extension of Wiener s Theory of Prediction and led to my life long interest in probability theory and its applications to information processing decision analysis and control **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   **Relational Methods for Computer Science Applications** Ewa Orlowska,Andrzej Szalas,2012-08-13 The origins of relational theories can be found in the work of three 19th cen tury mathematicians Augustus de Morgan 1864 On the syllogism IV and on the logic of relations Charles Sanders Peirce 1882 Brief description of the algebra of relatives and Ernst Schroder 1895 Vorlesungen iiber die Al gebra und Logik der Relative The modern origins of the theory of relations are due to Alfred Tarski 14 January 1902 Warsaw 26 October 1983 Berke ley His paper On the calculus of Relations published in 1941 gave rise to an algebraic theory of relations which is still extensively studied In the 1970s the applications of relational theories to various applied sciences emerged Nowadays relational theories are experiencing a period of extensive development with the emergence of new theories and systems allow ing better understanding and better use of such theories Relational theories have been used among others in the following fields Theory of programs program specification program verification mod elling concurrency process calculi semantics of programming languages Databases relational databases tabular methods dependency theory rectangular and difunctional decomposition of databases Computational linguistics relational semantics of natural languages re lational grammars Lambek calculus Spatial reasoning modelling of relationships between space regions Handling uncertainty fuzzy relations many valued relations information relations Indeed the concept of relation emerges again and again throughout computer science from its theoretical foundations to very practical implementations   **Fuzzy Cooperative Games** Milan Mares,2013-06-05 The present book deals with coalition games in which expected pay offs are only vaguely known In fact this idea about vagueness of expectations ap pears to be adequate to real situations in which the coalitional bargaining anticipates a proper realization of the game with a strategic behaviour of players The vagueness being present in the expectations of profits is mod elled by means of the theory of fuzzy set and fuzzy quantities The fuzziness of decision making and strategic behaviour attracts the attention of mathematicians and its particular aspects are discussed in sev eral works One can mention in this respect in particular the book Fuzzy and Multiobjective Games for Conflict Resolution by Ichiro Nishizaki and Masatoshi Sakawa referred below as 43 which has recently appeared in the series Studies in Fuzziness and Soft Computing published by Physica Verlag in which the present book is also apperaing That book together

with the one you carry in your hands form in a certain sense a complementary pair They present detailed views on two main aspects forming the core of game theory strategic mostly 2 person games and coalitional or cooperative games As a pair they offer quite a wide overview of fuzzy set theoretical approaches to game theoretical models of human behaviour *Relational Methods for Computer Science Applications* Ewa Orlowska,Andrzej Szalas,2001-02-26 <u>Fuzzy Logic</u> Vladimir Dimitrov,Victor Korotkich,2013-12-06 At the beginning of the new millennium fuzzy logic opens a new challenging perspective in information processing This perspective emerges out of the ideas of the founder of fuzzy logic Lotfi Zadeh to develop soft tools for direct computing with human perceptions The enigmatic nature of human perceptions manifests in their unique capacity to generalize extract patterns and capture both the essence and the integrity of the events and phenomena in human life This capacity goes together with an intrinsic imprecision of the perception based information According to Zadeh it is because of the imprecision of the human imprecision that they do not lend themselves to meaning representation through the use of precise methods based on predicate logic This is the principal reason why existing scientific theories do not have the capability to operate on perception based information We are at the eve of the emergence of a theory with such a capability Its applicative effectiveness has been already demonstrated through the industrial implementation of the soft computing a powerful intelligent technology centred in fuzzy logic At the focus of the papers included in this book is the knowledge and experience of the researchers in relation both to the engineering applications of soft computing and to its social and philosophical implications at the dawn of the third millennium The papers clearly demonstrate that Fuzzy Logic revolutionizes general approaches for solving applied problems and reveals deep connections between them and their solutions *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 <u>Fuzzy Methods for Customer Relationship Management and Marketing: Applications and Classifications</u> Meier, Andreas,Donzé, Laurent,2012-01-31 This book explores the possibilities and advantages created by fuzzy methods through the presentation of thorough research and case studies Provided by publisher *Fuzzy Mathematics* John N. Mordeson,Premchand S. Nair,2012-11-08 In the mid 1960 s I had the pleasure of attending a talk by Lotfi Zadeh at which he presented some of his basic and at the time recent work on fuzzy sets Lotfi s algebra of fuzzy subsets of a set struck me as very nice in fact as a graduate student in the mid 1950 s I had suggested similar ideas about continuous truth valued propositional calculus inffor and sup for or to my advisor but he didn t go for it and in fact confused it with the foundations of

probability theory so I ended up writing a thesis in a more conventional area of mathematics differential algebra I especially enjoyed Lotfi s discussion of fuzzy convexity I remember talking to him about possible ways of extending this work but I didn t pursue this at the time I have elsewhere told the story of how when I saw C L Chang s 1968 paper on fuzzy topological spaces I was impelled to try my hand at fuzzi fying algebra This led to my 1971 paper Fuzzy groups which became the starting point of an entire literature on fuzzy algebraic structures In 1974 King Sun Fu invited me to speak at a U S Japan seminar on Fuzzy Sets and their Applications which was to be held that summer in Berkeley   Self-Organizing Neural Networks Udo Seiffert,2013-11-11 The Self Organizing Map SOM is one of the most frequently used architectures for unsupervised artificial neural networks Introduced by Teuvo Kohonen in the 1980s SOMs have been developed as a very powerful method for visualization and unsupervised classification tasks by an active and innovative community of interna tional researchers A number of extensions and modifications have been developed during the last two decades The reason is surely not that the original algorithm was imperfect or inad equate It is rather the universal applicability and easy handling of the SOM Com pared to many other network paradigms only a few parameters need to be arranged and thus also for a beginner the network leads to useful and reliable results Never theless there is scope for improvements and sophisticated new developments as this book impressively demonstrates The number of published applications utilizing the SOM appears to be unending As the title of this book indicates the reader will benefit from some of the latest the oretical developments and will become acquainted with a number of challenging real world applications Our aim in producing this book has been to provide an up to date treatment of the field of self organizing neural networks which will be ac cessible to researchers practitioners and graduated students from diverse disciplines in academics and industry We are very grateful to the father of the SOMs Professor Teuvo Kohonen for sup porting this book and contributing the first chapter

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