

PAUL KRAUSE
DOMINIC CLARK

REPRESENTING UNCERTAIN KNOWLEDGE

An Artificial Intelligence
Approach

Representing Uncertain Knowledge

Anthony Hunter, Simon D. Parsons



Representing Uncertain Knowledge:

Representing Uncertain Knowledge Paul Krause, Dominic Clark, 2012-12-06 The representation of uncertainty is a central issue in Artificial Intelligence AI and is being addressed in many different ways Each approach has its proponents and each has had its detractors However there is now an increasing move towards the belief that an eclectic approach is required to represent and reason under the many facets of uncertainty We believe that the time is ripe for a wide ranging yet accessible survey of the main formalisms In this book we offer a broad perspective on uncertainty and approaches to managing uncertainty Rather than provide a daunting mass of technical detail we have focused on the foundations and intuitions behind the various schools The aim has been to present in one volume an overview of the major issues and decisions to be made in representing uncertain knowledge We identify the central role of managing uncertainty to AI and Expert Systems and provide a comprehensive introduction to the different aspects of uncertainty We then describe the rationales advantages and limitations of the major approaches that have been taken using illustrative examples The book ends with a review of the lessons learned and current research directions in the field The intended readership will include researchers and practitioners involved in the design and implementation of Decision Support Systems Expert Systems other Knowledge Based Systems and in Cognitive Science

Discovery And Fusion Of Uncertain Knowledge In Data Kun Yue, Weiyi Liu, Hao Wu, Dapeng Tao, Ming Gao, 2017-09-28 Data analysis is of utmost importance in the mining of big data where knowledge discovery and inference are the basis for intelligent systems to support the real world applications However the process involves knowledge acquisition representation inference and data Bayesian network BN is the key technology plays a key role in knowledge representation in order to pave way to cope with incomplete fuzzy data to solve the real life problems This book presents Bayesian network as a technology to support data intensive and incremental learning in knowledge discovery inference and data fusion in uncertain environment

Quantified Representation of Uncertainty and Imprecision Dov M. Gabbay, Philippe Smets, 2013-11-11 We are happy to present the first volume of the Handbook of Defeasible Reasoning and Uncertainty Management Systems Uncertainty pervades the real world and must therefore be addressed by every system that attempts to represent reality The representation of uncertainty is a major concern of philosophers logicians artificial intelligence researchers and computer scientists psychologists statisticians economists and engineers The present Handbook volumes provide frontline coverage of this area This Handbook was produced in the style of previous handbook series like the Handbook of Philosophical Logic the Handbook of Logic in Computer Science the Handbook of Logic in Artificial Intelligence and Logic Programming and can be seen as a companion to them in covering the wide applications of logic and reasoning We hope it will answer the needs for adequate representations of uncertainty This Handbook series grew out of the ESPRIT Basic Research Project DRUMS II where the acronym is made out of the Handbook series title This project was financially supported by the European Union and regroups 20 major European research teams

working in the general domain of uncertainty As a fringe benefit of the DRUMS project the research community was able to create this Hand book series relying on the DRUMS participants as the core of the authors for the Handbook together with external international experts

Fuzzy Petri Nets for Knowledge Representation, Acquisition and Reasoning Hua Shi,Hu-Chen Liu,2023-09-19 This book provides valuable knowledge useful fuzzy Petri nets FPN models and practical examples that can be considered by managers in supporting knowledge management of organizations to increase and sustain their competitive advantages In this book the authors proposed various improved FPN models to enhance the modeling power and applicability of FPNs in knowledge representation and reasoning This book is useful for practitioners and researchers working in the fields of knowledge management operation management information science industrial engineering and management science It can also be used as a textbook for postgraduate and senior undergraduate students

Uncertainty in Artificial Intelligence MKP,2014-06-28 **Uncertainty Proceedings 1994** Applications of **Uncertainty Formalisms** Anthony Hunter,Simon D. Parsons,2003-06-29 An introductory review of uncertainty formalisms by the volume editors begins the volume The first main part of the book introduces some of the general problems dealt with in research The second part is devoted to case studies each presentation in this category has a well delineated application problem and an analyzed solution based on an uncertainty formalism The final part reports on developments of uncertainty formalisms and supporting technology such as automated reasoning systems that are vital to making these formalisms applicable The book ends with a useful subject index There is considerable synergy between the papers presented The representative collection of case studies and associated techniques make the volume a particularly coherent and valuable resource It will be indispensable reading for researchers and professionals interested in the application of uncertainty formalisms as well as for newcomers to the topic

Fuzzy Knowledge Management for the Semantic Web Zongmin Ma,Fu Zhang,Li Yan,Jingwei Cheng,2013-09-28 This book goes to great depth concerning the fast growing topic of technologies and approaches of fuzzy logic in the Semantic Web The topics of this book include fuzzy description logics and fuzzy ontologies queries of fuzzy description logics and fuzzy ontology knowledge bases extraction of fuzzy description logics and ontologies from fuzzy data models storage of fuzzy ontology knowledge bases in fuzzy databases fuzzy Semantic Web ontology mapping and fuzzy rules and their interchange in the Semantic Web The book aims to provide a single record of current research in the fuzzy knowledge representation and reasoning for the Semantic Web The objective of the book is to provide the state of the art information to researchers practitioners and graduate students of the Web intelligence and at the same time serve the knowledge and data engineering professional faced with non traditional applications that make the application of conventional approaches difficult or impossible

Considerations on Representing and Handling Human Common-sense Knowledge Neli Zlatareva,1990

Advanced Computational Methods for Knowledge Engineering Tien Do,Huai An Le Thi,Ngoc Thanh Nguyen,2014-04-11 The proceedings consists of 30 papers which have been selected and

invited from the submissions to the 2nd International Conference on Computer Science Applied Mathematics and Applications ICCSAMA 2014 held on 8-9 May 2014 in Budapest Hungary. The conference is organized into 7 sessions: Advanced Optimization Methods and Their Applications, Queueing Models and Performance Evaluation, Software Development and Testing, Computational Methods for Mobile and Wireless Networks, Computational Methods for Knowledge Engineering, Logic Based Methods for Decision Making and Data Mining, and Nonlinear Systems and Applications respectively. All chapters in the book discuss theoretical and practical issues connected with computational methods and optimization methods for knowledge engineering. The editors hope that this volume can be useful for graduate and Ph.D. students and researchers in Computer Science and Applied Mathematics. It is the hope of the editors that readers of this volume can find many inspiring ideas and use them to their research. Many such challenges are suggested by particular approaches and models presented in individual chapters of this book.

Qualitative Methods for Reasoning Under Uncertainty Simon Parsons, 2001. Using qualitative methods to deal with imperfect information.

Knowledge Management in Fuzzy Databases Olga Pons, Maria A. Vila, 2013-11-11. 1. When I was asked by the editors of this book to write a foreword, I was seized by panic. Obviously, neither I am an expert in Knowledge Representation in Fuzzy Databases nor I could have been beforehand unaware that the book's contributors would be some of the most outstanding researchers in the field. However, Amparo Vila's gentle insistence gradually broke down my initial resistance and panic then gave way to worry. Which paving stones did I have at my disposal for making an entrance to the book? After thinking about it for some time, I concluded that it would be pretentious on my part to focus on the subjects which are dealt with directly in the contributions presented and that it would instead be better to confine myself to making some general reflections on knowledge representation given by imprecise information using fuzzy sets, reflections which have been suggested to me by some words in the following articles: such as graded notions, fuzzy objects, uncertainty, fuzzy implications, fuzzy inference, empty intersection, etc.

Relational Calculus for Actionable Knowledge Michel Barès, Éloi Bossé, 2022-01-21. This book focuses on one of the major challenges of the newly created scientific domain known as data science: turning data into actionable knowledge in order to exploit increasing data volumes and deal with their inherent complexity. Actionable knowledge has been qualitatively and intensively studied in management, business, and the social sciences, but in computer science and engineering, its connection has only recently been established to data mining and its evolution. Knowledge Discovery and Data Mining (KDD). Data mining seeks to extract interesting patterns from data, but until now the patterns discovered from data have not always been actionable for decision makers in Socio-Technical Organizations (STOs). With the evolution of the Internet and connectivity, STOs have evolved into Cyber-Physical and Social Systems (CPSS) that are known to describe our world today. In such complex and dynamic environments, the conventional KDD process is insufficient and additional processes are required to transform complex data into actionable knowledge. Readers are presented with advanced knowledge concepts.

and the analytics and information fusion AIF processes aimed at delivering actionable knowledge The authors provide an understanding of the concept of relation and its exploitation relational calculus as well as the formalization of specific dimensions of knowledge that achieve a semantic growth along the AIF processes This book serves as an important technical presentation of relational calculus and its application to processing chains in order to generate actionable knowledge It is ideal for graduate students researchers or industry professionals interested in decision science and knowledge engineering

Symbolic and Quantitative Approaches to Reasoning with Uncertainty Weiru Liu, 2011-06-25 This book constitutes the refereed proceedings of the 11th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty ECSQARU 2011 held in Belfast UK in June July 2011 The 60 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 108 submissions The papers are organized in topical sections on argumentation Bayesian networks and causal networks belief functions belief revision and inconsistency handling classification and clustering default reasoning and logics for reasoning under uncertainty foundations of reasoning and decision making under uncertainty fuzzy sets and fuzzy logic implementation and applications of uncertain systems possibility theory and possibilistic logic and uncertainty in databases

Symbolic and Quantitative Approaches to Uncertainty Rudolf Kruse, Pierre Siegel, 1991-10 A variety of formalisms have been developed to address such aspects of handling imperfect knowledge as uncertainty vagueness imprecision incompleteness and partial inconsistency Some of the most familiar approaches in this research field are nonmonotonic logics modal logics probability theory Bayesian and non Bayesian belief function theory and fuzzy sets and possibility theory ESPRIT Basic Research Action 3085 entitled Defeasible Reasoning and Uncertainty Management Systems DRUMS aims to contribute to the elucidation of similarities and differences between these formalisms It consists of 11 active European research groups The European Conference on Symbolic and Quantitative Approaches to Uncertainty ESQAU provides a forum for these groups to meet and discuss their scientific results This volume contains 42 contributions accepted for the ESQAU meeting held in October 1991 in Marseille together with 12 articles presenting the activities of the DRUMS groups and two invited presentations

Methods and Tools for Applied Artificial Intelligence Popovic, 1994-05-02 This work provides a comprehensive and coherent introduction to the expanding field of Artificial Intelligence AI explaining how knowledge based systems are built what tools and technologies are relevant and available and how to employ them in specific situations It pays special attention to the commercial intelligence systems that emerged in the 80s as well as projecting the likely developments of the 90s

Rough Sets and Knowledge Technology Guoyin Wang, 2006-07-06 This book constitutes the refereed proceedings of the First International Conference on Rough Sets and Knowledge Technology RSKT 2006 held in Chongqing China in July 2006 The volume presents 43 revised full papers and 58 revised short papers together with 15 commemorative and invited papers Topics include rough computing evolutionary computing fuzzy sets granular computing neural computing machine learning and KDD logics and reasoning

multiagent systems and Web intelligence and more

Rough Sets and Knowledge Technology Tianrui Li, Hung Son Nguyen, Guoyin Wang, Jerzy W. Grzymala-Busse, Ryszard Janicki, Aboul Ella Hassanien, Hong Yu, 2012-07-27 This book constitutes the refereed proceedings of the 7th International Conference on Rough Sets and Knowledge Technology RSKT 2012 held in Chengdu China during August 2012 as one of the co located conferences of the 2012 Joint Rough Set Symposium JRS 2012 The 63 revised papers including 42 regular and 21 short papers were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on rough sets and its generalizations rough sets in data and knowledge processing knowledge technology advances in granular computing AGC 2012 workshop decision theoretic rough set model and applications special session intelligent decision making and granular computing special session rough set foundations special session

The Geometry of Uncertainty Fabio Cuzzolin, 2020-12-17 The principal aim of this book is to introduce to the widest possible audience an original view of belief calculus and uncertainty theory In this geometric approach to uncertainty uncertainty measures can be seen as points of a suitably complex geometric space and manipulated in that space for example combined or conditioned In the chapters in Part I Theories of Uncertainty the author offers an extensive recapitulation of the state of the art in the mathematics of uncertainty This part of the book contains the most comprehensive summary to date of the whole of belief theory with Chap 4 outlining for the first time and in a logical order all the steps of the reasoning chain associated with modelling uncertainty using belief functions in an attempt to provide a self contained manual for the working scientist In addition the book proposes in Chap 5 what is possibly the most detailed compendium available of all theories of uncertainty Part II The Geometry of Uncertainty is the core of this book as it introduces the author's own geometric approach to uncertainty theory starting with the geometry of belief functions Chap 7 studies the geometry of the space of belief functions or belief space both in terms of a simplex and in terms of its recursive bundle structure Chap 8 extends the analysis to Dempster's rule of combination introducing the notion of a conditional subspace and outlining a simple geometric construction for Dempster's sum Chap 9 delves into the combinatorial properties of plausibility and commonality functions as equivalent representations of the evidence carried by a belief function then Chap 10 starts extending the applicability of the geometric approach to other uncertainty measures focusing in particular on possibility measures consonant belief functions and the related notion of a consistent belief function The chapters in Part III Geometric Interplays are concerned with the interplay of uncertainty measures of different kinds and the geometry of their relationship with a particular focus on the approximation problem Part IV Geometric Reasoning examines the application of the geometric approach to the various elements of the reasoning chain illustrated in Chap 4 in particular conditioning and decision making Part V concludes the book by outlining a future complete statistical theory of random sets future extensions of the geometric approach and identifying high impact applications to climate change machine learning and artificial intelligence The book is suitable for researchers in artificial intelligence statistics and applied science engaged with theories

of uncertainty The book is supported with the most comprehensive bibliography on belief and uncertainty theory

Web-based Intelligent E-learning Systems Zongmin Ma,2006-01-01 This book offers a complete understanding of the notions techniques and methods related to the research and developments of web based e learning systems Provided by publisher

Knowledge Discovery, Knowledge Engineering and Knowledge Management Ana Fred,Jan L. G. Dietz,Kecheng Liu,Joaquim Filipe,2011-02-04 This book constitutes the thoroughly refereed post conference proceedings of the First International Joint Conference on Knowledge Discovery Knowledge Engineering and Knowledge Management IC3K 2009 held in Funchal Madeira Portugal in October 2009 This book includes revised and extended versions of a strict selection of the best papers presented at the conference 27 revised full papers together with 3 invited lectures were carefully reviewed and selected from 369 submissions According to the three covered conferences KDIR 2009 KEOD 2009 and KMIS 2009 the papers are organized in topical sections on on knowledge discovery and information retrieval knowledge engineering and ontology development and on knowledge management and information sharing

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