PAUL KRAUSE
DOMINIC CLARK

# REPRESENTING
# UNCERTAIN
# KNOWLEDGE

## An Artificial Intelligence
## Approach

# Representing Uncertain Knowledge

**Dov M. Gabbay,Philippe Smets**

**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 in creasing 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 for malisms In this book we offer a broad perspective on uncertainty and approach es to managing uncertainty Rather than provide a daunting mass of techni cal 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 knowl edge 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 di rections in the field The intended readership will include researchers and practitioners in volved in the design and implementation of Decision Support Systems Ex pert 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 upmost 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     **Uncertainty in Knowledge Bases** Bernadette Bouchon-Meunier,Ronald R. Yager,Lotfi A. Zadeh,1991-09-11 One out of every two men over eigthy suffers from carcinoma of the prostate It is discovered incidentally in many patients with an alleged benign prostatic hyperplasia In treating patients the authors make clear that primary radical prostatectomy is preferred over transurethral resection due to the lower complication rate     **Uncertainty and Vagueness in Knowledge Based Systems** Rudolf Kruse,Erhard Schwecke,Jochen Heinsohn,2012-12-06 The primary aim of this monograph is to provide a formal framework for the representation and management of uncertainty and vagueness in the field of artificial intelligence It puts particular emphasis on a thorough analysis of these phenomena and on the development of sound mathematical modeling approaches Beyond this theoretical basis the scope of the book includes also implementational aspects and a valuation of existing models and systems The fundamental ambition of this book is to show that vagueness and un certainty can be handled adequately by using measure theoretic methods The presentation of applicable knowledge representation formalisms and reasoning algorithms

substantiates the claim that efficiency requirements do not necessar ily require renunciation of an uncompromising mathematical modeling These results are used to evaluate systems based on probabilistic methods as well as on non standard concepts such as certainty factors fuzzy sets or belief functions The book is intended to be self contained and addresses researchers and practioneers in the field of knowledge based systems It is in particular suit able as a textbook for graduate level students in AI operations research and applied probability A solid mathematical background is necessary for reading this book Essential parts of the material have been the subject of courses given by the first author for students of computer science and mathematics held since 1984 at the University in Braunschweig    *Uncertain Knowledge* Riki G. A. Dolby,R. G. A. Dolby,2002-04-18 This book explores the image of science in the modern world    **Foundations of Neural Networks, Fuzzy Systems, and Knowledge Engineering** Nikola K. Kasabov,1996 Combines the study of neural networks and fuzzy systems with symbolic artificial intelligence AI methods to build comprehensive AI systems Describes major AI problems pattern recognition speech recognition prediction decision making game playing and provides illustrative examples Includes applications in engineering business and finance    **Advanced Methods for Inconsistent Knowledge Management** Ngoc Thanh Nguyen,2007-09-12 This book is a first It fills a major gap in the market and provides a wide snapshot of intelligent technologies for inconsistency resolution The need for this resolution of knowledge inconsistency arises in many practical applications of computer systems This kind of inconsistency results from the use of various resources of knowledge in realizing practical tasks These resources are often autonomous and use different mechanisms for processing knowledge about the same real world This can lead to compatibility problems    Quantified Representation of Uncertainty and Imprecision Dov M. Gabbay,Philippe Smets,1998-10-31 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 ma jor concern of philosophers logicians artificial intelligence researchers and com puter sciencists 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 Philosoph ical 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 mangers 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

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 *Uncertainty in Artificial Intelligence* Didier J. Dubois,Michael P. Wellman,Bruce D'Ambrosio,2014-05-12 Uncertainty in Artificial Intelligence Proceedings of the Eighth Conference 1992 covers the papers presented at the Eighth Conference on Uncertainty in Artificial Intelligence held at Stanford University on July 17 19 1992 The book focuses on the processes methodologies technologies and approaches involved in artificial intelligence The selection first offers information on Relative Evidential Support RES modal logics for qualitative possibility and beliefs and optimizing causal orderings for generating DAGs from data Discussions focus on reversal swap and unclique operators modal representation of possibility and beliefs and conditionals The text then examines structural controllability and observability in influence diagrams lattice based graded logic and dynamic network models for forecasting The manuscript takes a look at reformulating inference problems through selective conditioning entropy and belief networks parallelizing probabilistic inference and a symbolic approach to reasoning with linguistic quantifiers The text also ponders on sidestepping the triangulation problem in Bayesian net computations exploring localization in Bayesian networks for large expert systems and expressing relational and temporal knowledge in visual probabilistic networks The selection is a valuable reference for researchers interested in artificial intelligence 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 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   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   **Computational Science – ICCS 2018** Yong Shi,Haohuan Fu,Yingjie Tian,Valeria V. Krzhizhanovskaya,Michael Harold Lees,Jack Dongarra,Peter M. A. Sloot,2018-06-12 The three volume set LNCS 10860 10861 and 10862 constitutes the proceedings of the 18th International Conference on Computational Science ICCS 2018 held in Wuxi China in June 2018 The total of 155 full and 66 short papers presented in this book set was carefully reviewed and selected from 404 submissions The papers were organized in topical sections named Part I ICCS Main Track Part II Track of Advances in High Performance Computational Earth Sciences Applications and Frameworks Track of Agent Based Simulations Adaptive Algorithms and Solvers Track of Applications of Matrix Methods in Artificial Intelligence and Machine Learning Track of Architecture Languages Compilation and Hardware Support for Emerging ManYcore Systems Track of Biomedical and Bioinformatics Challenges for Computer Science Track of Computational Finance and Business Intelligence Track of Computational Optimization Modelling and Simulation Track of Data Modeling and Computation in IoT and Smart Systems Track of Data Driven Computational Sciences Track of Mathematical Methods and Algorithms for Extreme Scale Track of Multiscale Modelling and Simulation Part III Track of Simulations of Flow and Transport Modeling Algorithms and Computation Track of Solving Problems with Uncertainties Track of Teaching Computational Science Poster Papers    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   **IGNOU Artificial Intelligence Previous 10 Years Solved Papers** Manish Soni,2024-11-13 Welcome to the world of comprehensive learning and academic excellence with 10 Years Solved IGNOU Papers Artificial Intelligence As we stand at the forefront of a technological revolution the field of Artificial Intelligence AI has emerged as a driving force transforming the way we live work and perceive the world around us The Indira Gandhi National Open University IGNOU has been at the forefront of providing quality education and this compilation of solved papers aims to facilitate your journey

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ensemble learning algorithms all tailored to tackle the unique challenges of uncertain data Moving beyond algorithms it explores the frontiers of knowledge discovery in uncertain environments revealing the potential of rough set theory fuzzy set theory Bayesian networks and Dempster Shafer theory for extracting meaningful insights from data marred by uncertainty Real world applications come to life as the book examines the intersection of uncertainty management and data warehousing shedding light on data warehouse design query processing and optimization business intelligence and data quality management in the presence of uncertainty Venturing into the realm of complex systems it unveils the intricacies of uncertainty modeling and propagation providing a roadmap for understanding and quantifying uncertainty in complex data driven systems Statistical methods take center stage as the book delves into probability theory statistical inference hypothesis testing confidence intervals regression analysis forecasting and time series analysis adapted to handle the nuances of uncertain data Soft computing techniques also come into focus with detailed exploration of neural networks fuzzy logic evolutionary computation and swarm intelligence for uncertain data processing With a keen eye on the future the book concludes by examining the emerging trends challenges and opportunities in uncertainty management and knowledge discovery setting the stage for continued advancements in this dynamic field Information Liberation Knowledge Discovery in Uncertain Datasets is an invaluable resource for data scientists researchers and practitioners seeking to unlock the full potential of uncertain data transforming it into actionable insights that drive informed decision making If you like this book write a review **Data Analysis and Information Systems** Hans-Hermann Bock,Wolfgang Polasek,2013-03-07 This volume presents 45 articles dealing with theoretical aspects methodo logical advances and practical applications in domains relating to classifica tion and clustering statistical and computational data analysis conceptual or terminological approaches for information systems and knowledge struc tures for databases These articles were selected from about 140 papers presented at the 19th Annual Conference of the Gesellschaft fur Klassifika tion the German Classification Society The conference was hosted by W Polasek at the Institute of Statistics and Econometry of the University of 1 Basel Switzerland March 8 10 1995 The papers are grouped as follows where the number in parentheses is the number of papers in the chapter 1 Classification and clustering 8 2 Uncertainty and fuzziness 5 3 Methods of data analysis and applications 7 4 Statistical models and methods 4 5 Bayesian learning 5 6 Conceptual classification knowledge ordering and information systems 12 7 Linguistics and dialectometry 4 These chapters are interrelated in many respects The reader may recogni ze for example the analogies and distinctions existing among classification principles developed in such different domains as statistics and information sciences the benefit to be gained by the comparison of conceptual and ma thematical approaches for structuring data and knowledge and finally the wealth of practical applications described in many of the papers For convenience of the reader the content of this volume is briefly reviewed

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