

David Borrajo
Knowledge Discovery

REPRESENTING UNCERTAIN KNOWLEDGE

An Artificial Intelligence
Approach

Representing Uncertain Knowledge

S Baum



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

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

Symbolic and Quantitative Approaches to Reasoning and Uncertainty, 2005

OECD Workshop on Knowledge-Based Expert Systems in Transportation, Espoo, Finland, 26-28 June 1990, 1990

Representing Knowledge and Evidence for Decision, 1986 Our decisions reflect uncertainty in various ways We take account of the uncertainty embodied in the roll of the die we less often take account of the uncertainty of our belief that the die is fair We need to take account of both uncertain knowledge and our knowledge of uncertainty Evidence itself has been regarded as uncertain We argue that pointvalued probabilities are a poor representation of uncertainty that we need not be concerned with uncertain evidence that interval valued probabilities that result from knowledge of convex sets of distribution functions in reference classes properly include Shafer's mass functions as a special case that these probabilities yield a plausible non monotonic form of inference uncertain inference inductive inference statistical inference and finally that this framework provides a very nearly classical decision theory so far as it goes It is unclear how global the principles such as minimax that go beyond the principle of maximizing expected utility are Artificial Intelligence Data Fusion evidence uncertainty decision non monotonicity knowledge representation expert systems

IEEE International Conference on Systems Engineering, September 17-19, 1992, International Conference Center, Kobe, Japan, 1992

Knowledge Organization, 1996

Knowledge, 1887

Representing Plans Under Uncertainty Peter F. Haddawy, 1991 The language can represent the chance that facts hold and events occur at various times It can represent the chance that actions and other events affect the future The model of action distinguishes between action

feasibility executability and effects Using this distinction a notion of expected utility for acts that may not be feasible is defined This notion is used to reason about the chance that trying a plan will achieve a given goal An algorithm for the problem of building construction planning is developed and the logic is used to prove the algorithm correct *Fuzzy Logic* John Yen, Reza Langari, 1999 Providing equal emphasis on theoretical foundations and practical issues this book features fuzzy logic concepts and techniques in intelligent systems control and information technology Uses Fuzzy Logic Toolbox MATLAB to demonstrate exemplar applications and to develop hands on exercises *Statistics for Corpus Linguistics* Michael P. Oakes, 1998 Statistical techniques and corpus applications whether oriented towards linguistics or language engineering often go hand in glove as Oakes demonstrates in this introduction to the subject which is designed for the use of non mathematicians FUZZ-IEEE '99 IEEE Neural Networks Council, 1999 The proceedings of the 1999 IEE International Fuzzy Systems Conference cover a wide range of aspects of control systems engineering *Knowledge Acquisition Tools for Expert Systems* John H. Boose, Brian R. Gaines, 1988 Like its companion this volume contains a wide range of material representing foundational work in knowledge acquisition problems techniques and tools from the major research groups worldwide Volume two includes tool oriented material **Intelligent Assistant Systems** Guy A. Boy, 1991 The first six chapters of this book concern classical artificial intelligence covering knowledge representation search and problem solving techniques the last six addresses nonmonotonic reasoning the distinction between situational and analytical knowledge the distribution of intelligence between human and machine the operator interface and the problem of knowledge acquisition Probabilistic Similarity Networks David E. Heckerman, 1991 In this remarkable blend of formal theory and practical application David Heckerman develops methods for building normative expert systems expert systems that encode knowledge in a decision theoretic framework Heckerman introduces the similarity network and partition two extensions to the influence diagram representation He uses the new representations to construct Pathfinder a large normative expert system for the diagnosis of lymph node diseases Heckerman shows that such expert systems can be built efficiently and that the use of a normative theory as the framework for representing knowledge can dramatically improve the quality of expertise that is delivered to the user He concludes with a formal evaluation of the power of his methods for building normative expert systems David Heckerman is Assistant Professor of Computer Science at the University of Southern California He received his doctoral degree in Medical Information Sciences from Stanford University Contents Introduction Similarity Networks and Partitions A Simple Example Theory of Similarity Networks Pathfinder A Case Study An Evaluation of Pathfinder Conclusions and Future Work **Management Expert Systems** Christian J. Ernst, 1988 Uncertainty and Probability in Artificial Intelligence, 1985 **Proceedings of the Section on Bayesian Statistical Science** American Statistical Association. Section on Bayesian Statistical Science, 1994 *The Artificial Intelligence Dictionary* Ellen Thro, 1991 General literature Reference *Concise Encyclopedia of Information Processing in Systems & Organizations* Andrew P. Sage, 1990 Begins a

series addressing the increasingly important role of expert systems in management and decision making in industry and commerce The 68 articles reflect recent research by practitioners of information processing and problem solving They discuss knowledge acquisition and representation simu

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