
MANAGING UNCERTAINTY IN EXPERT SYSTEMS

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Managing Uncertainty In Expert Systems

Daniel A. De Salvo, Jay Liebowitz



Managing Uncertainty In Expert Systems:

Managing Uncertainty in Expert Systems David C. Knue, AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF ENGINEERING., 1986 A study of using probability to manage uncertainty in expert systems is presented The study begins with a comprehensive summary of the literature on applying numeric techniques to manage uncertainty in expert systems In addition to probability fuzzy sets certainty factors and belief functions are addressed basic principles and rules of information combination for each technique are discussed The Lindley scoring rule argument for why probability is mathematically techniques is reviewed The issues why using probability is considered to be a hindrance to managing uncertainty in expert systems are also reviewed A simple expert system is developed using a state of the art expert system building tool called ALTERID ALTERID is unique in that it unifies logical and probabilistic inference This simple expert system is used to explore how probability theory can be used to manage the uncertainty in expert systems The simple ALTERID based expert system is also used to evaluate the aforementioned issues for using probability to manage uncertainty in expert systems Keywords artificial intelligence Bayes theorem decision analysis theses *Managing Uncertainty in Expert Systems* Jerzy W Grzymala-Busse, 1991-07-31 [Managing Uncertainty in Expert Systems](#) David C. Knue (CAPT, USAF.), 1986 **Expert Systems** Ian Graham, Peter Llewelyn Jones, 1988 A review of the present state of knowledge engineering drawing together underlying theory from related disciplines with particular attention to fuzzy logics the theory of fuzzy sets and decision support systems along with practical applications For managers wishing to evaluate expert decision systems for systems designers and knowledge engineers and for advanced undergraduate and graduate students in computer science Many charts diagrams tables and logical or mathematical formulas extensive references Annotation copyrighted by Book News Inc Portland OR **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 Fuzzy Expert Systems for Disease Diagnosis Kumar, A.V. Senthil, 2014-11-30 The development of fuzzy expert systems has provided new opportunities for problem solving amidst uncertainties The medical field in particular has benefitted tremendously from advancing fuzzy system technologies Fuzzy Expert Systems for Disease Diagnosis highlights the latest research and developments in fuzzy rule based methods used in the detection of medical complications and illness Offering emerging solutions and practical applications this timely publication is designed for use by researchers academicians and students as well as practitioners in the medical field *Neutrosophic Sets and Systems, book series, Vol. 11, 2016* Florentin Smarandache, Mumtaz Ali, 2016-06-01 This volume is a collection of fourteen papers written by different authors and co authors listed in the order of the papers N Radwan M Badr Senousy A E D M Riad Chunfang Liu YueSheng Luo J M Jency I Arockiarani P P Dey S Pramanik B C Giri N Shah A Hussain Gaurav M Kumar K Bhutani S Aggarwal V P Tra cu F Yuhua S Broumi A Bakali M Talea F Smarandache M Khan S Afzal H E Khalid M A Baset I M Hezam **The Logic of Uncertainty Potential and Limits of Probability Theory for Managing Uncertainty in Expert Systems** Jürg Kohlas, 1987 *Air University Abstracts of Research Reports*, 1986 **Neutrosophic Sets and Systems, vol. 11/2016** N. Radwan, M. Badr Senousy, A. E. D. M. Riad, J. M. Jency, Chunfang Liu, YueSheng Luo, S. Pramanik, N. Shah, F. Smarandache, P. P. Dey, Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc **Managing Artificial Intelligence and Expert Systems** Daniel A. De Salvo, Jay Liebowitz, 1990 Three major areas are examined teamwork required to implement AI technologies strategies for developing computer resources using AI and tactics for overseeing implementation and day to day operation Annotation copyrighted by Book News Inc Portland OR International Geographic Information Systems (IGIS) Symposium: Technical issues and the research agenda, 1988 *Scientific and Technical Aerospace Reports*, 1987 *Approaches for Managing Uncertainty in Learning Management Systems* Nouran M. Radwan, M. Badr Senousy, Alaa El Din M. Riad, The notion of uncertainty in expert systems is dealing with vague data incomplete information and imprecise knowledge Different uncertainty types which are imprecision vagueness ambiguity and inconsistency need different handling models Uncertain knowledge representation and analysis is an essential issue *Handling Uncertainty in Expert Systems Through the Use of Certainty Factors and Approximate Reasoning* Michael L. Lorenz, 1993 **The Logic of Uncertainty** Jürg Kohlas, 1987 *Expert Systems Review for Business & Accounting*, 1987 **Uncertainty in Knowledge-Based Systems** Bernadette Bouchon-Meunier, Bernadette Bouchon, Ronald R. Yager, 1987-11-04 **Expert Systems** Richard Forsyth, 1989 This practical guide provides an introduction for people who want to make use of expert systems It covers some of the practical experiences gained since the emergence of expert systems and their application to real world problems **Uncertain**

Information Processing In Expert Systems Petr Hajek, Tomas Havranek, Radim Jirousek, 1992-06-29 Uncertain Information Processing in Expert Systems systematically and critically examines probabilistic and rule based compositional MYCIN like systems the two most important families of expert systems dealing with uncertainty The book features a detailed introduction to probabilistic systems including methods using graphical models and methods of knowledge integration an analysis of compositional systems based on algebraic considerations an application of graphical models and the Dempster Shafer theory of evidence and its use in expert systems The book will be useful to anyone working in artificial intelligence statistical computing symbolic logic and expert systems

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