
MANAGING UNCERTAINTY IN EXPERT SYSTEMS

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Managing Uncertainty In Expert Systems

Marco Cascella



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

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

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 **Expert Systems** Chris Nikolopoulos, 1997-01-10 Offering an introduction to the field of expert knowledge based systems this text covers current and emerging trends as well as future research areas It considers both the system shell and programming environment approaches to expert system development

International Geographic Information Systems (IGIS) Symposium: Technical issues and the research agenda, 1987 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 *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

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