

ARTIFICIAL INTELLIGENCE

R. Kruse E. Schwecke J. Heinsohn

Uncertainty and Vagueness in Knowledge Based Systems

Numerical Methods



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Uncertainty And Vagueness In Knowledge Based Systems Numerical Methods Artificial Intelligence

Hans Bandemer



Uncertainty And Vagueness In Knowledge Based Systems Numerical Methods Artificial Intelligence:

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 uncertainty 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 necessarily 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 practitioners in the field of knowledge based systems. It is in particular suitable 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.

PRICAI 2000 Topics in Artificial Intelligence Riichiro Mizoguchi, John Slaney, 2007-12-07. PRICAI 2000 held in Melbourne Australia is the sixth Pacific Rim International Conference on Artificial Intelligence and is the successor to the five earlier PRICAIs held in Nagoya Japan, Seoul Korea, Beijing China, Cairns Australia and Singapore in the years 1990, 1992, 1994, 1996 and 1998 respectively. PRICAI is the leading conference in the Pacific Rim region for the presentation of research in Artificial Intelligence including its applications to problems of social and economic importance. The objectives of PRICAI are: To provide a forum for the introduction and discussion of new research results, concepts and technologies; To provide practising engineers with exposure to and an evaluation of evolving research tools and practices; To provide the research community with exposure to the problems of practical applications of AI; and To encourage the exchange of AI technologies and experience within the Pacific Rim countries. PRICAI 2000 is a memorial event in the sense that it is the last one in the 20th century. It reflects what researchers in this region believe to be promising for their future AI research activities. In fact, some salient features can be seen in the papers accepted. We have 12 papers on agents while PRICAI 96 and 98 had no more than two or three. This suggests to us one of the directions in which AI research is going in the next century. It is true that agent research provides us with a wide range of research subjects from basic ones to applications.

Computational Intelligence in Theory and Practice Bernd Reusch, Karl-Heinz Temme, 2001-01-18

Computational Intelligence with its roots in Fuzzy Logic, Neural Networks and Evolutionary Algorithms has become an important research and application field in computer science in the last decade. Methodologies from these areas and

combinations of them enable users from engineering business medicine and many more branches to capture and process vague incomplete uncertain and imprecise data and knowledge Many algorithms and tools have been developed to solve problems in the realms of high and low level control information processing diagnostics decision support classification optimisation and many more This book tries to show the impact and feedback between theory and applications of Computational Intelligence highlighted on selected examples

Computational Intelligence in Data Mining Giacomo Della Riccia, Rudolf Kruse, Hans-J. Lenz, 2014-05-04 The book aims to merge Computational Intelligence with Data Mining which are both hot topics of current research and industrial development Computational Intelligence incorporates techniques like data fusion uncertain reasoning heuristic search learning and soft computing Data Mining focuses on unscrambling unknown patterns or structures in very large data sets Under the headline Discovering Structures in Large Databases the book starts with a unified view on Data Mining and Statistics A System Point of View Two special techniques follow Subgroup Mining and Data Mining with Possibilistic Graphical Models Data Fusion and Possibilistic or Fuzzy Data Analysis is the next area of interest An overview of possibilistic logic nonmonotonic reasoning and data fusion is given the coherence problem between data and non linear fuzzy models is tackled and outlier detection based on learning of fuzzy models is studied In the domain of Classification and Decomposition adaptive clustering and visualisation of high dimensional data sets is introduced Finally in the section Learning and Data Fusion learning of special multi agents of virtual soccer is considered The last topic is on data fusion based on stochastic models

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

Proceedings of the 2nd Gauss Symposium Volker Mammitzsch, Hans Schneeweiss, 1995 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications

Symbolic and Quantitative Approaches to Reasoning and Uncertainty, 1993

Fuzzy Systems Conference (FUZZ), 2000 IEEE Neural Networks Council, 2000 *Symbolic and Quantitative*

Approaches to Reasoning and Uncertainty Michael Clarke, Rudolf Kruse, Serafin Moral, 1993 **Modelling Uncertain Data** Hans Bandemer, 1992 *Mathematics of Computing* Miscellaneous *Data, Expert Knowledge and Decisions*, 1995 **Fuzzy Information Engineering** Didier Dubois, Henri Prade, Ronald R. Yager, 1997 Fuzzy logic allows computer programmers to interpret ambiguous commands that ordinary rigid programs are unable to decipher For instance computers can work with words like tall and expensive rather than 6 5 or 669 95 This book covers the use of fuzzy logic in the information science and information engineering fields **KI ...**, 1998 **Foundations of Fuzzy Systems** Rudolf Kruse, Joan E. Gebhardt, Frank Klawonn, 1994-10-20 The strength of this book lies in its clear and precise examination of the theory of fuzzy systems A rigorous study of the principles of fuzzy set theory supports the book's fundamental aim which is to promote the development of fuzzy systems for successful real world applications The authors highlight two important application areas approximate reasoning in knowledge based systems and fuzzy control Reflecting the state of the art in fuzzy systems research the book is both comprehensive and practical in its approach Its illustration of key concepts is based on a detailed analysis of the underlying semantics Each chapter is enhanced by useful historical notes and extensive references The book presents several industrial case studies and exercises designed to increase its appeal to advanced students and researchers in computer science applied mathematics and engineering **IEEE/WIC International Conference on Web Intelligence** Jiming Liu, 2003 **Advances in the Dempster-Shafer Theory of Evidence** Ronald R. Yager, Janusz Kacprzyk, Mario Fedrizzi, 1994-03 Builds on classical probability theory and offers an extremely workable solution to the many problems of artificial intelligence concentrating on the rapidly growing areas of fuzzy reasoning and neural computing Contains a collection of previously unpublished articles by leading researchers in the field Genetic Algorithms + Data Structures Zbigniew Michalewicz, 1992 **Logical Foundations for Cognitive Agents** Hector J. Levesque, 1999-06-07 It is a pleasure and an honor to be able to present this collection of papers to Ray Reiter on the occasion of his 60th birthday To say that Ray's research has had a deep impact on the field of Artificial Intelligence is a considerable understatement Better to say that anyone thinking of doing work in areas like deductive databases default reasoning diagnosis reasoning about action and others should realize that they are likely to end up proving corollaries to Ray's theorems Sometimes studying related work makes us think harder about the way we approach a problem studying Ray's work is as likely to make us want to drop our way of doing things and take up his This is because more than a mere visionary Ray has always been a true leader He shows us how to proceed not by pointing from his armchair but by blazing a trail himself setting up camp and waiting for the rest of us to arrive The International Joint Conference on Artificial Intelligence clearly recognized this and awarded Ray its highest honor the Research Excellence award in 1993 before it had even finished acknowledging all the founders of the field The papers collected here sample from many of the areas where Ray has done pioneering work One of his earliest areas of application was databases and this is reflected in the chapters by Bertossi et al and the survey chapter by Minker

IJCAI-91 International Joint Conferences on Artificial Intelligence,1991 **Foundations of Neuro-Fuzzy Systems**

Detlef Nauck, Frank Klawonn, Rudolf Kruse, 1997-09-19 Foundations of Neuro Fuzzy Systems reflects the current trend in intelligent systems research towards the integration of neural networks and fuzzy technology The authors demonstrate how a combination of both techniques enhances the performance of control decision making and data analysis systems Smarter and more applicable structures result from marrying the learning capability of the neural network with the transparency and interpretability of the rule based fuzzy system Foundations of Neuro Fuzzy Systems highlights the advantages of integration making it a valuable resource for graduate students and researchers in control engineering computer science and applied mathematics The authors informed analysis of practical neuro fuzzy applications will be an asset to industrial practitioners using fuzzy technology and neural networks for control systems data analysis and optimization tasks

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