

REASONING UNDER UNCERTAINTY

GROUP 3

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• The meaning of uncertainty and theories devised to deal with it.

Uncertainty refers to the lack of definite knowledge or information, leading to a state of doubt or unpredictability. There are various theories and models that attempt to address and deal with uncertainty, such as:

• Probability theory – Probability theory is a mathematical framework that deals with the likelihood of events occurring. It

Reasoning About Uncertainty

Joseph Y. Halpern



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Reasoning about Uncertainty, second edition Joseph Y. Halpern, 2017-04-07 Formal ways of representing uncertainty and various logics for reasoning about it updated with new material on weighted probability measures complexity theoretic considerations and other topics In order to deal with uncertainty intelligently we need to be able to represent it and reason about it In this book Joseph Halpern examines formal ways of representing uncertainty and considers various logics for reasoning about it While the ideas presented are formalized in terms of definitions and theorems the emphasis is on the philosophy of representing and reasoning about uncertainty Halpern surveys possible formal systems for representing uncertainty including probability measures possibility measures and plausibility measures considers the updating of beliefs based on changing information and the relation to Bayes theorem and discusses qualitative quantitative and plausibilistic Bayesian networks This second edition has been updated to reflect Halpern's recent research New material includes a consideration of weighted probability measures and how they can be used in decision making analyses of the Doomsday argument and the Sleeping Beauty problem modeling games with imperfect recall using the runs and systems approach a discussion of complexity theoretic considerations the application of first order conditional logic to security Reasoning about Uncertainty is accessible and relevant to researchers and students in many fields including computer science artificial intelligence economics particularly game theory mathematics philosophy and statistics

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Reasoning about Uncertainty Paul R. Cohen, 1985

Reasoning about Uncertainty Joseph Y. Halpern, 2003 Heuristic Handbook of Defeasible Reasoning and Uncertainty Management

Systems Dov M. Gabbay, Philippe Smets, 2000-12-31 The Handbook of Defeasible Reasoning and Uncertainty Management Systems is unique in its masterly survey of the computational and algorithmic problems of systems of applied reasoning The various theoretical and modelling aspects of defeasible reasoning were dealt with in the first four volumes and Volume 5 now turns to the algorithmic aspect Topics covered include Computation in valuation algebras consequence finding algorithms possibilistic logic probabilistic argumentation systems networks and satisfiability algorithms for imprecise probabilities for Dempster Shafer and network based decisions

Symbolic and Quantitative Approaches to Reasoning and Uncertainty Michael Clarke, Rudolf Kruse, Serafin Moral, 2014-01-15 *Foundations of Reasoning Under Uncertainty*

Bernadette Bouchon-Meunier, Luis Magdalena, Manuel Ojeda-Aciego, José-Luis Verdegay, Ronald R. Yager, 2010-01-15 This book draws on papers presented at the 2008 Conference on Information Processing and Management of Uncertainty IPMU held in Málaga Spain The conference brought together some of the world's leading experts in the study of uncertainty

Subjective Logic Audun Jøsang, 2016-10-27 This is the first comprehensive treatment of subjective logic and all its operations The author developed the approach and in this book he first explains subjective opinions opinion representation and decision making under vagueness and uncertainty and he then offers a full definition of subjective logic harmonising the key notations and formalisms concluding with chapters on trust networks and subjective Bayesian networks which when combined form general subjective networks The author shows how real world situations can be realistically modelled with regard to how situations are perceived with conclusions that more correctly reflect the ignorance and uncertainties that result from partially uncertain input arguments The book will help researchers and practitioners to advance improve and apply subjective logic to build powerful artificial reasoning models and tools for solving real world problems A good grounding in discrete mathematics is a prerequisite

Quantified Representation of Uncertainty and Imprecision Dov M. Gabbay, Philippe Smets, 2013-11-11 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 major concern of philosophers logicians artificial intelligence researchers and computer scientists 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 Philosophical 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 Handbook

series relying on the DRUMS participants as the core of the authors for the Handbook together with external international experts

The Argumentative Turn in Policy Analysis Sven Ove Hansson, Gertrude Hirsch Hadorn, 2016-05-26 This book describes argumentative tools and strategies that can be used to guide policy decisions under conditions of great uncertainty. Contributing authors explore methods from philosophical analysis and in particular argumentation analysis showing how it can be used to systematize discussions about policy issues involving great uncertainty. The first part of the work explores how to deal in a systematic way with decision making when there may be plural perspectives on the decision problem along with unknown consequences of what we do. Readers will see how argumentation tools can be used for prioritizing among uncertain dangers for determining how decisions should be framed for choosing a suitable time frame for a decision and for systematically choosing among different decision options. Case studies are presented in the second part of the book showing argumentation in practice in the areas of climate geoengineering, water governance, synthetic biology, nuclear waste and financial markets. In one example, argumentation analysis is applied to proposals to solve the climate problem with various technological manipulations of the natural climate system such as massive dispersion of reflective aerosols into the stratosphere. Even after a thorough investigation of such a proposal, doubt remains as to whether all the potential risks have been identified. In such discussions, conventional risk analysis does not have much to contribute since it presupposes that the risks have been identified, whereas the argumentative approach to uncertainty management can be used to systematize discussions.

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HEURISTIC REASONING ABOUT UNCERTAINTY: AN ARTIFICIAL INTELLIGENCE APPROACH Paul Raymond Cohen, 1988

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Inferential Models Ryan Martin,Chuanhai Liu,2015-09-25 A New Approach to Sound Statistical ReasoningInferential Models Reasoning with Uncertainty introduces the authors recently developed approach to inference the inferential model IM framework This logical framework for exact probabilistic inference does not require the user to input prior information The authors show how an IM produces meaning **On the Expressiveness of Rule-based Systems for Reasoning with Uncertainty** Stanford University. Computer Science Department. Knowledge Systems Laboratory,D. E. Heckerman,E. J.

Horvitz,1987 *Artificial Intelligence for Security* Tuomo Sipola,Janne Alatalo,Monika Wolfmayr,Tero Kokkonen,2024-06-28
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Quantitative Approaches to Reasoning with Uncertainty Thomas D. Nielsen,Nevin L. Zhang,2004-04-07 The refereed proceedings of the 7th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty ECSQARU 2003 held in Aalborg Denmark in July 2003 The 47 revised full papers presented together with 2 invited survey articles were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on foundations of uncertainty concepts Bayesian networks algorithms for uncertainty inference learning decision graphs belief functions fuzzy sets possibility theory default reasoning belief revision and inconsistency handling logics and tools

Modeling and Using Context Paolo Bouquet,Luciano Serafini,Patrick Brézillon,Massimo Benerecetti,Francesca Castellani,2003-07-31 This volume contains the papers presented at the Second International and terdisciplinary Conference on Modeling and Using Context CONTEXT 99 held in Trento Italy from 9 to 11 September 1999 CONTEXT 99 is the second in the CONTEXT series The rst was held in Rio de Janeiro Brazil in 1997 The CONTEXT conference series is meant to provide an interdisciplinary rum where researchers can exchange ideas methodologies and results on c text and is increasingly becoming an important reference for all people doing research on context This is testi ed by the larger number of research areas that are represented at CONTEXT 99 in particular Philosophy and Cognitive Psychology were not signi cantly present at the rst conference and by the number and quality of submitted papers Speci cally we received 118 papers mostly of good or excellent quality Among them 33 28% have been accepted as full papers and 21 as short papers We think it is fair to say that the 54 papers collected in this volume provide a signi cant picture of the international research on context currently going on The notion of context plays an important role in many areas both theoretical and applied such as Formal Logic Arti

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Decision Making Systems** ,2010 ISKE2009 is the fourth in a series of conferences on Intelligent Systems and Knowledge Engineering The ISKE2009 proceedings covers state of the art research and development in various areas of Intelligent Systems and Knowledge Engineering particularly of Intelligent Decision Making Systems Sample Chapter s Chapter 1 Applications of Intelligent Systems in Transportation Logistics 1 389 KB Contents Computational Intelligence and Expert Systems Data Mining and Data Analysis Intelligent Decision Support Systems Intelligent Information Processing Knowledge Representation and Learning

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