Representing and Reasoning With Probabilistic Knowledge

A Logical Approach to Probabilities

Fahiem Bacchus

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Hykel Hosni, Jürgen Landes

Representing And Reasoning With Probabilistic Knowledge A Logical Approach To Probabilities:

Representing and Reasoning with Probabilistic Knowledge Fahiem Bacchus, 1990 Probabilistic information has many uses in an intelligent system This book explores logical formalisms for representing and reasoning with probabilistic information that will be of particular value to researchers in nonmonotonic reasoning applications of probabilities and knowledge representation It demonstrates that probabilities are not limited to particular applications like expert systems they have an important role to play in the formal design and specification of intelligent systems in general Fahiem Bacchus focuses on two distinct notions of probabilities one propositional involving degrees of belief the other proportional involving statistics He constructs distinct logics with different semantics for each type of probability that are a significant advance in the formal tools available for representing and reasoning with probabilities These logics can represent an extensive variety of qualitative assertions eliminating requirements for exact point valued probabilities and they can represent firstshy order logical information The logics also have proof theories which give a formal specification for a class of reasoning that subsumes and integrates most of the probabilistic reasoning schemes so far developed in AI Using the new logical tools to connect statistical with propositional probability Bacchus also proposes a system of direct inference in which degrees of belief can be inferred from statistical knowledge and demonstrates how this mechanism can be applied to yield a powerful and intuitively satisfying system of defeasible or default reasoning Fahiem Bacchus is Assistant Professor of Computer Science at the University of Waterloo Ontario Contents Introduction Propositional Probabilities Statistical Probabilities Combining Statistical and Propositional Probabilities Default Inferences from Statistical Knowledge Defeasible Reasoning and Uncertainty Management Systems Dov M. Gabbay, Philippe Smets, 2013-04-17 Reasoning under uncertainty is always based on a specified language or for malism including its particular syntax and semantics but also on its associated inference mechanism In the present volume of the handbook the last aspect the algorithmic aspects of uncertainty calculi are presented Theory has sufficiently advanced to unfold some generally applicable fundamental structures and methods On the other hand particular features of specific formalisms and ap proaches to uncertainty of course still influence strongly the computational methods to be used Both general as well as specific methods are included in this volume Broadly speaking symbolic or logical approaches to uncertainty and nu merical approaches are often distinguished Although this distinction is somewhat misleading it is used as a means to structure the present volume This is even to some degree reflected in the two first chapters which treat fundamental general methods of computation in systems designed to represent uncertainty It has been noted early by Shenoy and Shafer that computations in different domains have an underlying common structure Essentially pieces of knowledge or information are to be combined together and then focused on some particular question or domain This can be captured in an algebraic structure called valuation algebra which is described in the first chapter Here the basic operations of combination and focus ing marginalization of knowledge and information is

modeled abstractly subject to simple axioms
Perspectives on Logics for Data-driven Reasoning Hykel Hosni, Jürgen Landes, 2025-01-21 This book calls for a rethinking of logic as the core methodological tool for scientific reasoning in the context of a steadily increasing emphasis on data centered science To do so it provides a state of the art presentation of the role logic can have in making the most of the current opportunities while making explicit the key challenges opened up by the data driven age of scientific research Particular attention is given to the following four core fields and applications Reasoning with correlations medical life science applications logics for statistical inference machine learning and societal applications thereof reasoning with evidence defining good evidence causal reasoning forensic reasoning The book collects contributions from key logicians methodologists and scientists This multidisciplinary perspective benefits both scientists and logicians interested in data driven science Scientists are introduced to logics that go beyond classical and thus are applicable to reasoning with data Logicians have a change to focus on the potential applications of their methods and techniques to pressing scientific problems This book is therefore of interest to scientists and logicians working on data centered science

Innovations in Bayesian Networks Dawn E. Holmes, 2008-09-10 Bayesian networks currently provide one of the most rapidly growing areas of research in computer science and statistics In compiling this volume we have brought together contributions from some of the most prestigious researchers in this field Each of the twelve chapters is self contained Both theoreticians and application scientists engineers in the broad area of artificial intelligence will find this volume valuable It also provides a useful sourcebook for Graduate students since it shows the direction of current research Artificial Intelligence David Heckerman, Abe Mamdani, 2014-05-12 Uncertainty in Artificial Intelligence contains the proceedings of the Ninth Conference on Uncertainty in Artificial Intelligence held at the Catholic University of America in Washington DC on July 9 11 1993 The papers focus on methods of reasoning and decision making under uncertainty as applied to problems in artificial intelligence AI and cover topics ranging from knowledge acquisition and automated model construction to learning planning temporal reasoning and machine vision Comprised of 66 chapters this book begins with a discussion on causality in Bayesian belief networks before turning to a decision theoretic account of conditional ought statements that rectifies glaring deficiencies in classical deontic logic and forms a sound basis for qualitative decision theory Subsequent chapters explore trade offs in constructing and evaluating temporal influence diagrams normative engineering risk management systems additive belief network models and sensitivity analysis for probability assessments in Bayesian networks Automated model construction and learning as well as algorithms for inference and decision making are also considered This monograph will be of interest to both students and practitioners in the fields of AI and computer science

Computational Logic in Multi-Agent Systems Katsumi Inoue, Ken Satoh, Francesca Toni, 2007-05-16 This book constitutes the thoroughly refereed post proceedings of the 7th International Workshop on Computational Logic for Multi Agent Systems CLIMA VII held in Hakodate Japan in May 2006 It was an associated event of AAMAS 2006 the main international conference

on autonomous agents and multi agent systems The series of workshops presents current work on application of general and declarative theories Nonmonotonic Reasoning Dritan Berzati, 2007 The capability to reason in a world full of uncertainties vagueness and ignorance is what distinguishes humans This ability to argument in a partially known world is the informal definition of common sense reasoning The question how common sense reasoning is performed occupied humanity since we can think of Last century this issue reached an immense importance Especially during the last three decades the study of common sense reasoning became one of the major research topics in Artificial Intelligence AI Several formalisms to capture the mechanism of common sense reasoning have been proposed so far This book concentrates on presenting the most important formalisms for common sense reasoning and showing that one of the discussed formalisms serves perfectly to capture the mechanism of common sense reasoning since this formalism subsumes all other in this book introduced formalisms dealing with common sense reasoning Semantic Multimedia and Ontologies Yiannis Kompatsiaris, Paola Hobson, 2008-01-11 This comprehensive book draws together experts to explore how knowledge technologies can be exploited to create new multimedia applications and how multimedia technologies can provide new contexts for the use of knowledge technologies Thorough coverage of all relevant topics is given The step by step approach guides the reader from fundamental enabling technologies of ontologies analysis and reasoning through to applications A Guided Tour of Artificial Intelligence Research Pierre Marquis, Odile which have hitherto had less attention Papini, Henri Prade, 2020-05-08 The purpose of this book is to provide an overview of AI research ranging from basic work to interfaces and applications with as much emphasis on results as on current issues It is aimed at an audience of master students and Ph D students and can be of interest as well for researchers and engineers who want to know more about AI The book is split into three volumes the first volume brings together twenty three chapters dealing with the foundations of knowledge representation and the formalization of reasoning and learning Volume 1 Knowledge representation reasoning and learning the second volume offers a view of AI in fourteen chapters from the side of the algorithms Volume 2 AI Algorithms the third volume composed of sixteen chapters describes the main interfaces and applications of AI Volume 3 Interfaces and applications of AI Implementing reasoning or decision making processes requires an appropriate representation of the pieces of information to be exploited This first volume starts with a historical chapter sketching the slow emergence of building blocks of AI along centuries Then the volume provides an organized overview of different logical numerical or graphical representation formalisms able to handle incomplete information rules having exceptions probabilistic and possibilistic uncertainty and beyond as well as taxonomies time space preferences norms causality and even trust and emotions among agents Different types of reasoning beyond classical deduction are surveyed including nonmonotonic reasoning belief revision updating information fusion reasoning based on similarity case based interpolative or analogical as well as reasoning about actions reasoning about ontologies description logics argumentation and negotiation or persuasion

between agents Three chapters deal with decision making be it multiple criteria collective or under uncertainty Two chapters cover statistical computational learning and reinforcement learning other machine learning topics are covered in Volume 2 Chapters on diagnosis and supervision validation and explanation and knowledge base acquisition complete the volume

Semantics Muhammad Tanvir Afzal, 2012-04-25 The current book is a nice blend of number of great ideas theories mathematical models and practical systems in the domain of Semantics The book has been divided into two volumes The current one is the first volume which highlights the advances in theories and mathematical models in the domain of Semantics This volume has been divided into four sections and ten chapters The sections include 1 Background 2 Queries Predicates and Semantic Cache 3 Algorithms and Logic Programming and 4 Semantic Web and Interfaces Authors across the World have contributed to debate on state of the art systems theories mathematical models in the domain of Semantics Subsequently new theories mathematical models and systems have been proposed developed and evaluated Rüdiger Reischuk, 1997-02-21 This book constitutes the refereed proceedings of the 14th Annual Symposium on Theoretical Aspects of Computer Science STACS 97 held in L beck Germany in February March 1997 The 46 revised full papers included were carefully selected from a total of 139 submissions also included are three invited full papers. The papers presented span the whole scope of theoretical computer science Among the topics covered are in particular algorithms and data structures computational complexity automata and formal languages structural complexity parallel and distributed systems parallel algorithms semantics specification and verification logic computational geometry cryptography learning and inductive Nonmonotonic Reasoning Grigoris Antoniou, Mary-Anne Williams, 1997 Nonmonotonic reasoning provides inference formal methods that enable intelligent systems to operate adequately when faced with incomplete or changing information In particular it provides rigorous mechanisms for taking back conclusions that in the presence of new information turn out to be wrong and for deriving new alternative conclusions instead Nonmonotonic reasoning methods provide rigor similar to that of classical reasoning they form a base for validation and verification and therefore increase confidence in intelligent systems that work with incomplete and changing information Following a brief introduction to the concepts of predicate logic that are needed in the subsequent chapters this book presents an in depth treatment of default logic Other subjects covered include the major approaches of autoepistemic logic and circumscription belief revision and its relationship to nonmonotonic inference and briefly the stable and well founded semantics of logic programs Probabilistic Semantic Web R. Zese, 2016-12-09 The management of uncertainty in the Semantic Web is of foremost importance given the nature and origin of the available data This book presents a probabilistic semantics for knowledge bases DISPONTE which is inspired by the distribution semantics of Probabilistic Logic Programming The book also describes approaches for inference and learning In particular it discusses 3 reasoners and 2 learning algorithms BUNDLE and TRILL are able to find explanations for queries and compute their probability with regard to DISPONTE KBs while TRILLP compactly represents explanations using a

Boolean formula and computes the probability of queries The system EDGE learns the parameters of axioms of DISPONTE KBs To reduce the computational cost EDGEMR performs distributed parameter learning LEAP learns both the structure and parameters of KBs with LEAPMR using EDGEMR for reducing the computational cost The algorithms provide effective techniques for dealing with uncertain KBs and have been widely tested on various datasets and compared with state of the Agent Computing and Multi-Agent Systems Ramakoti Sadananada, 2006-07-25 This book constitutes the refereed proceedings of the 9th Pacific Rim International Workshop on Multi Agents PRIMA 2006 held in Guilin China in August 2006 The book presents 39 revised full papers and 57 revised short papers together with 4 invited talks addressing subjects from theoretical and methodological issues to applications Topics include agent models agent architectures agent oriented software engineering semantic Web service collaboration coordination and negotiation and more Reasoning for the Semantic Web III Fernando Bobillo, Rommel N. Carvalho, Paulo C.G. Costa, Claudia d'Amato, Nicola Fanizzi, Kathryn B. Laskey, Kenneth J. Laskey, Thomas Lukasiewicz, Matthias Nickles, Michael Pool, 2014-11-29 This book contains revised and significantly extended versions of selected papers from three workshops on Uncertainty Reasoning for the Semantic Web URSW held at the International Semantic Web Conferences ISWC in 2011 2012 and 2013 The 16 papers presented were carefully reviewed and selected from numerous submissions. The papers included in this volume are organized in topical sections on probabilistic and Dempster Shafer models fuzzy and possibilistic models inductive reasoning and machine learning and hybrid approaches Conditionals in Nonmonotonic Reasoning and Belief Revision Gabriele Kern-Isberner, 2003-06-29 Conditionals are omnipresent in everyday life as well as in scientific environments they represent generic knowledge acquired inductively or learned from books They tie a flexible and highly interrelated network of connections along which reasoning is possible and which can be applied to different situations. Therefore conditionals are important but also quite problematic objects in knowledge representation This book presents a new approach to conditionals which captures their dynamic non proportional nature particularly well by considering conditionals as agents shifting possible worlds in order to establish relationships and beliefs This understanding of conditionals yields a rich theory which makes complex interactions between conditionals transparent and operational Moreover it provides a unifying and enhanced framework for knowledge representation nonmonotonic reasoning belief revision and even for knowledge discovery Cambridge Handbook of Formal Semantics Maria Aloni, Paul Dekker, 2016-07-07 Formal semantics the scientific study of meaning in natural language is one of the most fundamental and long established areas of linguistics This Handbook offers a comprehensive yet compact guide to the field bringing together research from a wide range of world leading experts Chapters include coverage of the historical context and foundation of contemporary formal semantics a survey of the variety of formal logical approaches to linguistic meaning and an overview of the major areas of research within current semantic theory broadly conceived The Handbook also explores the interfaces between semantics and neighbouring disciplines

including research in cognition and computation This work will be essential reading for students and researchers working in linguistics philosophy psychology and computer science Multi-Agent Systems and Applications V Hans-Dieter Burkhard, Gabriela Lindemann, Rineke Verbrugge, Laszlo Varga, 2007-09-13 This book constitutes the refereed proceedings of the 5th International Central and Eastern European Conference on Multi Agent Systems CEEMAS 2007 held in Leipzig Germany September 25 27 2007 The 29 revised full papers and 17 revised short papers presented together with an invited paper were carefully reviewed and selected from 84 submissions The papers cover a wide range of areas The Science of Conjecture James Franklin, 2015-08-01 How did we make reliable predictions before Pascal and Fermat's discovery of the mathematics of probability in 1654 What methods in law science commerce philosophy and logic helped us to get at the truth in cases where certainty was not attainable In The Science of Conjecture James Franklin examines how judges witch inquisitors and juries evaluated evidence how scientists weighed reasons for and against scientific theories and how merchants counted shipwrecks to determine insurance rates The Science of Conjecture provides a history of rational methods of dealing with uncertainty and explores the coming to consciousness of the human understanding of risk

Computational Theories of Interaction and Agency Philip Agre, Stanley J. Rosenschein, 1996 Over time the field of artificial intelligence has developed an agent perspective expanding its focus from thought to action from search spaces to physical environments and from problem solving to long term activity Originally published as a special double volume of the journal Artificial Intelligence this book brings together fundamental work by the top researchers in artificial intelligence neural networks computer science robotics and cognitive science on the themes of interaction and agency It identifies recurring themes and outlines a methodology of the concept of agency The seventeen contributions cover the construction of principled characterizations of interactions between agents and their environments as well as the use of these characterizations to guide analysis of existing agents and the synthesis of artificial agents Artificial Intelligence series Special Issues of Artificial Intelligence

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