Theoretical Aspects of

Reasoning About Knowledge

Proceedings of the
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Rohit Parikh

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Collected Papers Robert J. Aumann,2000 Robert Aumann s career in game theory has spanned over research from his doctoral dissertation in 1956 to papers as recent as January 1995 Threaded through all of Aumann s work symbolized in his thesis on knots is the study of relationships between different ideas between different phenomena and between ideas and phenomena When you look closely at one scientific idea writes Aumann you find it hitched to all others It is these hitches that I have tried to study The papers are organized in several categories general knot theory decision theory utility and subjective probability strategic games coalitional games and mathematical methods Aumann has written an introduction to each of these groups that briefly describes the content and background of each paper including the motivation and the research process and relates it to other work in the collection and to work by others There is also a citation index that allows readers to trace the considerable body of literature which cites Aumann s own work **Representations of Commonsense Knowledge** Ernest Davis,2014-07-10 Representations of Commonsense Knowledge provides a rich language for expressing commonsense knowledge and inference techniques for carrying out commonsense knowledge This book provides a survey of the research on commonsense knowledge Organized into 10 chapters this book begins with an overview of the basic ideas on artificial intelligence commonsense reasoning This text then examines the structure of logic which is roughly analogous to that of a programming language Other chapters describe how rules of universal validity can be applied to facts known with absolute certainty to deduce other facts known with absolute certainty This book discusses as well some prominent issues in plausible inference The final chapter deals with commonsense knowledge about the interrelations and interactions among agents and discusses some issues in human and social interactions that have been studied in the artificial intelligence literature This book is a valuable resource for students on a graduate course on knowledge representation

Nonmonotonic Logic V. Wiktor Marek,Miroslaw Truszczynski,2013-03-14 When I first participated in exploring theories of nonmonotonic reasoning in the late 1970s I had no idea of the wealth of conceptual and mathematical results that would emerge from those halting first steps This book by Wiktor Marek and Miroslaw Truszczynski is an elegant treatment of a large body of these results It provides the first comprehensive treatment of two influen tial nonmonotonic logics autoepistemic and default logic and describes a number of surprising and deep unifying relationships between them It also relates them to various modal logics studied in the philosophical logic litera ture and provides a thorough treatment of their applications as foundations for logic programming semantics and for truth maintenance systems It is particularly appropriate that Marek and Truszczynski should have authored this book since so much of the research that went into these results is due to them Both authors were trained in the Polish school of logic and they bring to their research and writing the logical insights and sophisticated mathematics that one would expect from such a background I believe that this book is a splendid example of the intellectual maturity of the field of artificial intelligence and that it will provide a model of scholarship for us

all for many years to come Ray Reiter Department of Computer Science University of Toronto Toronto Canada M5S 1A4 and The Canadian Institute for Advanced Research Table of Contents 1 1 Introduction   *Probabilistic Reasoning in Intelligent Systems* Judea Pearl,2014-06-28 Probabilistic Reasoning in Intelligent Systems is a complete and accessible account of the theoretical foundations and computational methods that underlie plausible reasoning under uncertainty The author provides a coherent explication of probability as a language for reasoning with partial belief and offers a unifying perspective on other AI approaches to uncertainty such as the Dempster Shafer formalism truth maintenance systems and nonmonotonic logic The author distinguishes syntactic and semantic approaches to uncertainty and offers techniques based on belief networks that provide a mechanism for making semantics based systems operational Specifically network propagation techniques serve as a mechanism for combining the theoretical coherence of probability theory with modern demands of reasoning systems technology modular declarative inputs conceptually meaningful inferences and parallel distributed computation Application areas include diagnosis forecasting image interpretation multi sensor fusion decision support systems plan recognition planning speech recognition in short almost every task requiring that conclusions be drawn from uncertain clues and incomplete information Probabilistic Reasoning in Intelligent Systems will be of special interest to scholars and researchers in AI decision theory statistics logic philosophy cognitive psychology and the management sciences Professionals in the areas of knowledge based systems operations research engineering and statistics will find theoretical and computational tools of immediate practical use The book can also be used as an excellent text for graduate level courses in AI operations research or applied probability   *Reasoning About Plans* James Allen,Henry Kautz,Richard Pelavin,Josh Tenenberg,2014-06-28 This book presents four contributions to planning research within an integrated framework James Allen offers a survey of his research in the field of temporal reasoning and then describes a planning system formalized and implemented directly as an inference process in the temporal logic Starting from the same logic Henry Kautz develops the first formal specification of the plan recognition process and develops a powerful family of algorithms for plan recognition in complex situations Richard Pelavin then extends the temporal logic with model operators that allow the representation to support reasoning about complex planning situations involving simultaneous interacting actions and interaction with external events Finally Josh Tenenberg introduces two different formalisms of abstraction in planning systems and explores the properties of these abstraction techniques in depth   Principles of Semantic Networks John F. Sowa,2014-07-10 Principles of Semantic Networks Explorations in the Representation of Knowledge provides information pertinent to the theory and applications of semantic networks This book deals with issues in knowledge representation which discusses theoretical topics independent of particular implementations Organized into three parts encompassing 19 chapters this book begins with an overview of semantic network structure for representing knowledge as a pattern of interconnected nodes and arcs This text then analyzes the concepts of subsumption and taxonomy and synthesizes a framework that integrates many previous approaches

and goes beyond them to provide an account of abstract and partially defines concepts Other chapters consider formal analyses which treat the methods of reasoning with semantic networks and their computational complexity This book discusses as well encoding linguistic knowledge The final chapter deals with a formal approach to knowledge representation that builds on ideas originating outside the artificial intelligence literature in research on foundations for programming languages This book is a valuable resource for mathematicians   <u>Principles of Knowledge Representation and Reasoning</u> Luigia Carlucci Aiello,Jon Doyle,Stuart Charles Shapiro,1996   **Proceedings of the … International Joint Conference on Artificial Intelligence** ,1997   **Readings in Uncertain Reasoning** Glenn Shafer,Judea Pearl,1990 Computing Methodologies Artificial Intelligence   <u>Readings in Planning</u> James Allen,James A. Hendler,Austin Tate,1990 This book presents four contributions to planning research within an integrated framework James Allen offers a survey of his research in the field of temporal reasoning and then describes a planning system formalized and implemented directly as an inference process in the temporal logic Starting from the same logic Henry Kautz develops the first formal specification of the plan recognition process and develops a powerful family of algorithms for plan recognition in complex situations Richard Pelavin then extends the temporal logic with model operators that allow the representation to support reasoning about complex planning situations involving simultaneous interacting actions and interaction with external events Finally Josh Tenenberg introduces two different formalisms of abstraction in planning systems and explores the properties of these abstraction techniques in depth   **Proceedings of the Eleventh National Conference on Artificial Intelligence** American Association for Artificial Intelligence,1993 AAAI proceedings describe innovative concepts techniques perspectives and observations that present promising research directions in artificial intelligence Topics include The principles underlying cognition perception and action in humans and machines The design application and evaluation of AI algorithms and intelligent systems The analysis of tasks and domains in which intelligent systems perform   **Fault-tolerant Reasoning** Raymundo Morado,1994   *Logic Programming and Non-monotonic Reasoning* ,1993   **Annales Societatis Mathematicae Polonae** Polskie Towarzystwo Matematyczne,1998   **Fundamenta Informaticae** Polskie Towarzystwo Matematyczne,1995   *Planning and Control* Thomas L. Dean,Michael P. Wellman,1991 Techniques from artificial intelligence control theory operations research and the decision sciences are invoked in this text reference devoted to the design of complex systems for applications in robotics automated manufacturing and time critical decision support systems Annotation copyri Bo   *Proceedings* American Association for Artificial Intelligence,2006   **Topological Characterizations for Logic Programming Semantics** Audrey Piltch Ferry,1994   **Computational Logic and Proof Theory** Georg Gottlob,Alexander Leitsch,Daniele Mundici,1993 The Third Kurt G   **Index of Conference Proceedings** British Library. Document Supply Centre,1991

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