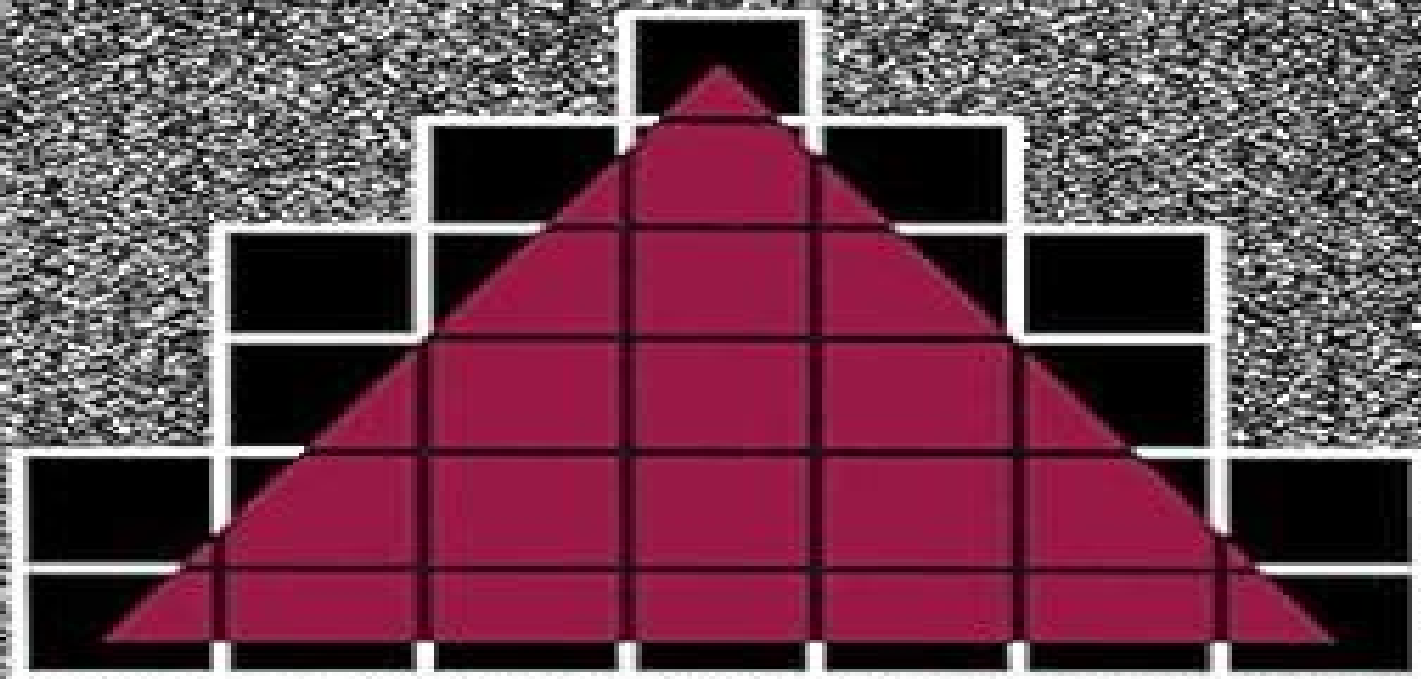


Representations of Commonsense Knowledge

Ernest Davis



Representations Of Commonsense Knowledge Morgan Kaufmann Series In Representation And Reasoning

Erik T. Mueller



Representations Of Commonsense Knowledge Morgan Kaufmann Series In Representation And Reasoning:

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. *Principles of Knowledge Representation and Reasoning* Bernhard Nebel, Charles Rich, William R. Swartout, 1992. Stringently reviewed papers presented at the October 1992 meeting held in Cambridge Mass address such topics as nonmonotonic logic, taxonomic logic, specialized algorithms for temporal, spatial, and numerical reasoning, and knowledge representation issues in planning, diagnosis, and natural language. Principles of Knowledge Representation and Reasoning James Allen, Richard E. Fikes, Erik Sandewall, 1991. The proceedings of the Second International Conference on the title held in Cambridge Massachusetts April 1991 comprise 55 papers on topics including the logical specifications of reasoning behaviors and representation formalisms, comparative analysis of competing algorithms and formalisms, and analysis. Principles of Knowledge Representation and Reasoning Luigia Carlucci Aiello, Jon Doyle, Stuart Charles Shapiro, 1996. **Principles of Knowledge Representation and Reasoning** Jon Doyle, Erik Sandewall, Pietro Torasso, 1994. The proceedings of KR 94 comprise 55 papers on topics including deduction, search, description logics, theories of knowledge and belief, nonmonotonic reasoning and belief revision, action and time planning, and decision making and reasoning about the physical world and the relations between KR. Cognitive Robotics Angelo Cangelosi, Minoru Asada, 2022-05-17. The current state of the art in cognitive robotics covering the challenges of building AI powered intelligent robots inspired by natural cognitive systems. A novel approach to building AI powered intelligent robots takes inspiration from the way natural cognitive systems in humans, animals, and biological systems develop intelligence by exploiting the full power of interactions between body and brain, the physical and social environment in which they live, and phylogenetic, developmental, and learning dynamics. This volume reports on the current state of the art in cognitive robotics, offering the first comprehensive coverage of building robots inspired by natural cognitive systems. Contributors first provide a systematic definition of cognitive robotics and a history of developments in the field. They describe in detail five main approaches: developmental, neuro-evolutionary, swarm, and soft robotics. They go on to consider methodologies and concepts treating

topics that include commonly used cognitive robotics platforms and robot simulators biomimetic skin as an example of a hardware based approach machine learning methods and cognitive architecture Finally they cover the behavioral and cognitive capabilities of a variety of models experiments and applications looking at issues that range from intrinsic motivation and perception to robot consciousness Cognitive Robotics is aimed at an interdisciplinary audience balancing technical details and examples for the computational reader with theoretical and experimental findings for the empirical scientist

Merging Symbolic and Data-Driven AI for Robot Autonomy Nikos Katzouris, Simona Perri, Mohan Sridharan, Daniele Meli, 2025-09-08 Robots are increasingly being deployed to assist and collaborate with humans in many applications such as medicine navigation and industrial automation To truly collaborate with humans in complex environments robots require advanced cognitive capabilities including the ability to reason with domain specific commonsense knowledge and the noise observations obtained in the presence of partial observability and non deterministic action outcomes Research in Artificial Intelligence AI has resulted in sophisticated symbolic formalisms that use temporal and logic relations to represent commonsense domain knowledge as well as probabilistic data driven frameworks that quantitatively represent uncertainty in the decision making process of robot systems Stand alone symbolic or stochastic AI methods have limitations when applied to robots in complex scenarios Symbolic AI methods reason with relational descriptions of the attributes of the domain and the robot to guide the robot's behavior It is however often computationally intractable to use these methods to reason about uncertainty quantitatively or to operate at the level of granularity required for precise interaction with objects in complex domains Probabilistic and data driven AI methods on the other hand elegantly represent uncertainty quantitatively and provide mechanisms for reasoning and acting at the level of granularity required for interaction with the physical worlds These methods however offer limited expressiveness for complex cognitive concepts

Software Prototyping in Data and Knowledge Engineering G. Guida, G. Lamperti, Marina Zanella, 2013-03-07 This monograph describes an innovative prototyping framework for data and knowledge intensive systems The proposed approach will prove especially useful for advanced and research oriented projects that aim to develop a traditional database perspective into fully fledged advanced database approaches and knowledge engineering technologies The book is organised in two parts The first part comprising chapters 1 to 4 provides an introduction to the concept of prototyping to database and knowledge based technologies and to the main issues involved in the integration of data and knowledge engineering The second part comprising chapters 5 to 12 illustrates the proposed approach in technical detail Audience This volume will be of interest to researchers in the field of databases and knowledge engineering in general and for software designers and knowledge engineers who aim to expand their expertise in data and knowledge intensive systems

Understanding Language Understanding Ashwin Ram, Kenneth Moorman, 1999 This book highlights cutting edge research relevant to the building of a computational model of reading comprehension as in the processing and understanding of a natural language

text or story The book takes an interdisciplinary approach to the study of reading with contributions from computer science psychology and philosophy Contributors cover the theoretical and psychological foundations of the research in discussions of what it means to understand a text how one builds a computational model and related issues in knowledge representation and reasoning The book also addresses some of the broader issues that a natural language system must deal with such as reading in context linguistic novelty and information extraction

Introduction to Knowledge Systems Mark

Stefik,2014-06-28 Focusing on fundamental scientific and engineering issues this book communicates the principles of building and using knowledge systems from the conceptual standpoint as well as the practical Previous treatments of knowledge systems have focused on applications within a particular field or on symbol level representations such as the use of frame and rule representations Introduction to Knowledge Systems presents fundamentals of symbol level representations including representations for time space uncertainty and vagueness It also compares the knowledge level organizations for three common knowledge intensive tasks classification configuration and diagnosis The art of building knowledge systems incorporates computer science theory programming practice and psychology The scope of this book is appropriately broad ranging from the design of hierarchical search algorithms to techniques for acquiring the task specific knowledge needed for successful applications Each chapter proceeds from concepts to applications and closes with a brief tour of current research topics and open issues Readers will come away with a solid foundation that will enable them to create real world knowledge systems using whatever tools and programming languages are most current and appropriate

Journal of New Generation Computer Systems ,1991

Large-scale 3D Data Integration Sisi Zlatanova,David Prospero,2005-10-14

Large Scale 3D Data Integration Challenges and Opportunities examines the fundamental aspects of 3D geo information focusing on the latest developments in 3D GIS geographic information and AEC architecture engineering construction systems This book addresses policy makers designers and engineers and individuals that need to overco

Knowledge-Based Systems, Four-Volume Set Cornelius T. Leondes,2000-07-11 The design of knowledge systems is finding myriad applications from corporate databases to general decision support in areas as diverse as engineering manufacturing and other industrial processes medicine business and economics In engineering for example knowledge bases can be utilized for reliable electric power system operation In medicine they support complex diagnoses while in business they inform the process of strategic planning Programmed securities trading and the defeat of chess champion Kasparov by IBM s Big Blue are two familiar examples of dedicated knowledge bases in combination with an expert system for decision making With volumes covering Implementation Optimization Computer Techniques and Systems and Applications this comprehensive set constitutes a unique reference source for students practitioners and researchers in computer science engineering and the broad range of applications areas for knowledge based systems

Readings in Qualitative Reasoning About Physical Systems Daniel S. Weld,Johan De Kleer,2013-09-17 Readings in Qualitative Reasoning about Physical Systems describes the automated

reasoning about the physical world using qualitative representations This text is divided into nine chapters each focusing on some aspect of qualitative physics The first chapter deal with qualitative physics which is concerned with representing and reasoning about the physical world The goal of qualitative physics is to capture both the commonsense knowledge of the person on the street and the tacit knowledge underlying the quantitative knowledge used by engineers and scientists The succeeding chapter discusses the qualitative calculus and its role in constructing an envisionment that includes behavior over both mythical time and elapsed time These topics are followed by reviews of the mathematical aspects of qualitative reasoning history based simulation and temporal reasoning as well as the intelligence in scientific computing The final chapters are devoted to automated modeling for qualitative reasoning and causal explanations of behavior These chapters also examine the qualitative kinematics of reasoning about shape and space This book will prove useful to psychologists and psychiatrists

Proceedings of the First International Conference on Principles of Knowledge Representation and Reasoning Ronald J. Brachman, Hector J. Levesque, Ray Reiter, 1989 Proceedings held May 1989 Topics include temporal logic hierarchical knowledge bases default theories nonmonotonic and analogical reasoning formal theories of belief revision and metareasoning Annotation copyright Book News Inc Portland Or

Distributed Reason Maintenance for Multiagent Systems Gerhard K. Kraetzschmar, 1997-10 This book provides a systematic in depth investigation of a class of multiple context assumption based multiagent reasoning problems typical e g for distributed planning scheduling and control First logical and architectural foundations are provided to construct the two systems XFRMS and MXFRMS allowing the development of more complex utilities Then the technology developed for XFRMS in the single agent case is further enhanced to the multiagent situation The multiagent RMS MXFRMS provides along with XFRMS a solid foundation for building more complex utilities such as plan or schedule maintenance systems In the final chapter the software engineer confronted with the task of building a practicable multiagent system can find a discussion of potential uses and future extensions of the systems provided

Advances in Case-Based Reasoning Jean-Paul Haton, Mark Keane, Michel Manago, 1995-10-11 The type of material considered for publication includes drafts of original papers or monographs technical reports of high quality and broad interest advanced level lectures reports of meetings provided they are of exceptional interest and focused on a single topic

Commonsense Reasoning Erik T. Mueller, 2014-11-11 To endow computers with common sense is one of the major long term goals of artificial intelligence research One approach to this problem is to formalize commonsense reasoning using mathematical logic Commonsense Reasoning An Event Calculus Based Approach is a detailed high level reference on logic based commonsense reasoning It uses the event calculus a highly powerful and usable tool for commonsense reasoning which Erik Mueller demonstrates as the most effective tool for the broadest range of applications He provides an up to date work promoting the use of the event calculus for commonsense reasoning and bringing into one place information scattered across many books and papers Mueller shares the knowledge gained in using the event calculus and extends the literature

with detailed event calculus solutions that span many areas of the commonsense world The Second Edition features new chapters on commonsense reasoning using unstructured information including the Watson system commonsense reasoning using answer set programming and techniques for acquisition of commonsense knowledge including crowdsourcing Understand techniques for automated commonsense reasoning Incorporate commonsense reasoning into software solutions Acquire a broad understanding of the field of commonsense reasoning Gain comprehensive knowledge of the human capacity for commonsense reasoning *Sentic Computing* Erik Cambria, Amir Hussain, 2012-07-28 In this book common sense computing techniques are further developed and applied to bridge the semantic gap between word level natural language data and the concept level opinions conveyed by these In particular the ensemble application of graph mining and multi dimensionality reduction techniques is exploited on two common sense knowledge bases to develop a novel intelligent engine for open domain opinion mining and sentiment analysis The proposed approach termed sentic computing performs a clause level semantic analysis of text which allows the inference of both the conceptual and emotional information associated with natural language opinions and hence a more efficient passage from unstructured textual information to structured machine processable data **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

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