AI – Epistemic Logic

- Epistemic Logic is the modal logic that reasons about knowledge and belief.

- Philosophy, Artificial Intelligence, Distributed Systems.

- *Important*: our examples in that part will be about *propositional multi-epistemic logic* (no quantifiers, more than one modal)

Epistemic Logic For Ai And Computer Science

Yale Weiss,Romina Birman

Epistemic Logic For Ai And Computer Science:

   Epistemic Logic for AI and Computer Science J.-J. Ch. Meyer,John-Jules Ch Meyer,W. van der Hoek,2004-03-25 A broad introduction to the subject many exercises with full solutions are provided   Philosophical Logic and Artificial Intelligence Richmond H. Thomason,2012-12-06 cians concerned with using logical tools in philosophy have been keenly aware of the limitations that arise from the original con centration of symbolic logic on the idiom of mathematics and many of them have worked to create extensions of the received logical theories that would make them more generally applicable in philosophy Carnap s Testability and Meaning published in 1936 and 1937 was a good early example of this sort of research motivated by the inadequacy of first order formalizations of dis This sugar cube is soluble in water positional sentences like And in fact there is a continuous history of work on this topic extending from Carnap s paper to Shoham s contribution to the present volume Much of the work in philosophical logic and much of what has appeared in The Journal of Philosophical Logic was mo tivated by similar considerations work in modal logic includ ing tense deontic and epistemic logic intensional logics non declaratives presuppositions and many other topics In this sort of research sin ce the main point is to devise new formalisms the technical development tends to be rather shallow in comparison with mathematical logic though it is sel dom absent theorems need to be proved in order to justify the formalisms and sometimes these are nontrivial On the other hand much effort has to go into motivating a logical innovation   *Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing* Dominik Slezak,Marcin Szczuka,Ivo Duentsch,Yiyu Yao,2005-09-19 This volume contains the papers selected for presentation at the 10th Int national Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2005 organized at the University of Regina August 31st September 3rd 2005 This conference followed in the footsteps of inter tional events devoted to the subject of rough sets held so far in Canada China Japan Poland Sweden and the USA RSFDGrC achievedthe status of biennial international conference starting from 2003 in Chongqing China The theory of rough sets proposed by Zdzis law Pawlak in 1982 is a model of approximate reasoning The main idea is based on indiscernibility relations that describe indistinguishability of objects Concepts are represented by proximations In applications rough set methodology focuses on approximate representation of knowledge derivable from data It leads to signi cant results in many areas such as nance industry multimedia and medicine The RSFDGrC conferences put an emphasis on connections between rough sets and fuzzy sets granularcomputing and knowledge discoveryand data m ing both at the level of theoretical foundations and real life applications In the case of this event additional e ort was made to establish a linkage towards a broader range of applications We achieved it by including in the conference program the workshops on bioinformatics security engineering and embedded systems as well as tutorials and sessions related to other application areas   Principles of Knowledge Representation and Reasoning Jon Doyle,Erik Sandewall,Pietro Torasso,2014-06-05 Principles of Knowledge Representation and Reasoning contains the proceedings of the Fourth International Conference on Principles of Knowledge

Representation and Reasoning KR 94 held in Bonn Germany on May 24 27 1994 The conference provided a forum for reviewing the theory and principles underlying knowledge representation and reasoning Topics covered range from reasoning about mental states and spatial reasoning with propositional logics to default logic as a query language Comprised of 60 chapters this book begins with a description of a formal language for representing and reasoning about time and action before turning to proof in context and how it can replace the most common uses of reflection principles The reader is then introduced to reasoning with minimal models belief ascription and mental level modeling and a unified framework for class based representation formalisms A general approach to specificity in default reasoning is also described together with an ontology for engineering mathematics and the use of abduction to generate tests The book concludes by considering the use of natural language for knowledge representation and reasoning This monograph will be of interest to both students and practitioners in the fields of artificial intelligence and computer science *Epistemic Situation Calculus Based on Granular Computing* Seiki Akama,Yotaro Nakayama,Tetsuya Murai,2023-06-16 This book approaches to the subject of common sense reasoning in AI using epistemic situation calculus which integrates the ideas of situation calculus and epistemic logic Artificial intelligence AI is the research area of science and engineering for intelligent machines especially intelligent computer programs It is very important to deal with common sense reasoning in knowledge based systems If we employ a logic based framework classical logic is not suited for the purpose of describing common sense reasoning It is well known that there are several difficulties with logic based approaches e g the so called Fame Problem We try to formalize common sense reasoning in the context of granular computing based on rough set theory The book is intended for those like experts and students who wish to get involved in the field as a monograph or a textbook for the subject We assume that the reader has mastered the material ordinarily covered in AI and mathematical logic **ECAI 2016** G.A. Kaminka,M. Fox,P. Bouquet,2016-08-24 Artificial Intelligence continues to be one of the most exciting and fast developing fields of computer science This book presents the 177 long papers and 123 short papers accepted for ECAI 2016 the latest edition of the biennial European Conference on Artificial Intelligence Europe s premier venue for presenting scientific results in AI The conference was held in The Hague the Netherlands from August 29 to September 2 2016 ECAI 2016 also incorporated the conference on Prestigious Applications of Intelligent Systems PAIS 2016 and the Starting AI Researcher Symposium STAIRS The papers from PAIS are included in this volume the papers from STAIRS are published in a separate volume in the Frontiers in Artificial Intelligence and Applications FAIA series Organized by the European Association for Artificial Intelligence EurAI and the Benelux Association for Artificial Intelligence BNVKI the ECAI conference provides an opportunity for researchers to present and hear about the very best research in contemporary AI This proceedings will be of interest to all those seeking an overview of the very latest innovations and developments in this field *Logics in Artificial Intelligence* ,2004 *Logics in AI* Jan Eijck,1991 The European Workshop on Logics in Artificial Intelligence was held at the Centre for

Mathematics and Computer Science in Amsterdam September 10 14 1990 This volume includes the 29 papers selected and presented at the workshop together with 7 invited papers The main themes are Logic programming and automated theorem proving Computational semantics for natural language Applications of non classical logics Partial and dynamic logics PUBLISHER S WEBSITE **Information Systems-correctness And Reusability - Selected Papers Form The Is-core Workshop** Roel J Wieringa,R B Feenstra,1995-06-09 This volume contains papers on formal system specification The chapters treat algebraic specification temporal logic specification default specifications and deontic logic specification Applications include information systems distributed systems and real time systems One of the major themes in the book is the motivation to bring formal specification techniques one step further towards realistic applications ARTIFICIAL INTELLIGENCE Joost Nico Kok,2009-12-20 Artificial Intelligence is a component of Encyclopedia of Technology Information and Systems Management Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty Encyclopedias The Theme on Artificial Intelligence provides the essential aspects and fundamentals of Artificial Intelligence Definition Trends Techniques and Cases Logic in Artificial Intelligence AI Computational Intelligence Knowledge Based System Development Tools It is aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers **ECAI 2020** Giuseppe De Giacomo,Bistra Dilkina,Michela Milano,Senén Barro,Alberto Bugarín,Jérôme Lang,2020-09-15 This book presents the proceedings of the 24th European Conference on Artificial Intelligence ECAI 2020 held in Santiago de Compostela Spain from 29 August to 8 September 2020 The conference was postponed from June and much of it conducted online due to the COVID 19 restrictions The conference is one of the principal occasions for researchers and practitioners of AI to meet and discuss the latest trends and challenges in all fields of AI and to demonstrate innovative applications and uses of advanced AI technology The book also includes the proceedings of the 10th Conference on Prestigious Applications of Artificial Intelligence PAIS 2020 held at the same time A record number of more than 1 700 submissions was received for ECAI 2020 of which 1 443 were reviewed Of these 361 full papers and 36 highlight papers were accepted an acceptance rate of 25% for full papers and 45% for highlight papers The book is divided into three sections ECAI full papers ECAI highlight papers and PAIS papers The topics of these papers cover all aspects of AI including Agent based and Multi agent Systems Computational Intelligence Constraints and Satisfiability Games and Virtual Environments Heuristic Search Human Aspects in AI Information Retrieval and Filtering Knowledge Representation and Reasoning Machine Learning Multidisciplinary Topics and Applications Natural Language Processing Planning and Scheduling Robotics Safe Explainable and Trustworthy AI Semantic Technologies Uncertainty in AI and Vision The book will be of interest to all those whose work involves the use of AI technology **Saul Kripke on Modal Logic** Yale Weiss,Romina Birman,2024-10-02 This edited volume brings together papers by both eminent and rising scholars to celebrate Saul Kripke s singular contributions to modal logic Kripke s

work on modal logic helped usher in a new semantic epoch for the field and made facility with modal logic indispensable not only to technically oriented philosophers but to theoretical computer scientists and others as well This volume features previously unpublished work of Kripke s as well as a brief intellectual biography recounting the story of how Kripke became interested in and made his first contributions to modal logic However the majority of the volume s contributions are forward looking and produce new philosophical and technical insights by engaging with ideas tracing back to Kripke *Epistemic Dynamics and Protocol Information* Tomohiro Hoshi,2009 **Logic: Logic and computer science** H. C. M. de Swart,1993 In Logic Programming 25 and 26 the language of logic is used as a declarative programming language Prolog uses resolution as its underlying proof mechanism The logical structure of relational databases is explained 27 in set theoretical terms and it is shown how the language of set theory can be used as a Structured Query Language SQL Computability Undecidability and Complexity are treated in sections 28 29 and 30 respectively in terms of Turing machines The undecidability of the validity problem for predicate logic and the NP completeness of the satisfiability problem for propositional logic are shown in a similiar way Chomsky s notion of grammar and its relation to the notion of automation is presented in section 31 Both untyped and typed lambda calculus are treated in sections 32 and 33 respectively The role epistemic logic can play in the description of distributed systems is explained 34 In section 35 and 36 temporal logic is used both for verification by hand and for automatic verification A tableaux based automated theorem prover for classical logic is elaborated in the Appendix Each section ends with a number of exercises the answers can be found at the end of this book **Logics for Computer and Data Sciences, and Artificial Intelligence** Lech T. Polkowski,2022-01-01 This volume offers the reader a systematic and throughout account of branches of logic instrumental for computer science data science and artificial intelligence Addressed in it are propositional predicate modal epistemic dynamic temporal logics as well as applicable in data science many valued logics and logics of concepts rough logics It offers a look into second order logics and approximate logics of parts The book concludes with appendices on set theory algebraic structures computability complexity MV algebras and transition systems automata and formal grammars By this composition of the text the reader obtains a self contained exposition that can serve as the textbook on logics and relevant disciplines as well as a reference text MICAI ... ,2005 **Logics in AI** Jan van Eijck,1991-02-26 The European Workshop on Logics in Artificial Intelligence was held at the Centre for Mathematics and Computer Science in Amsterdam September 10 14 1990 This volume includes the 29 papers selected and presented at the workshop together with 7 invited papers The main themes are Logic programming and automated theorem proving Computational semantics for natural language Applications of non classical logics Partial and dynamic logics Fundamenta Informaticae Polskie Towarzystwo Matematyczne,2004 **International Journal of Mathematics, Game Theory, and Algebra** ,2002 **Annales Societatis Mathematicae Polonae** Polskie Towarzystwo Matematyczne,1998

The Enigmatic Realm of **Epistemic Logic For Ai And Computer Science**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Epistemic Logic For Ai And Computer Science** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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Epistemic Logic For Ai And Computer Science Introduction

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