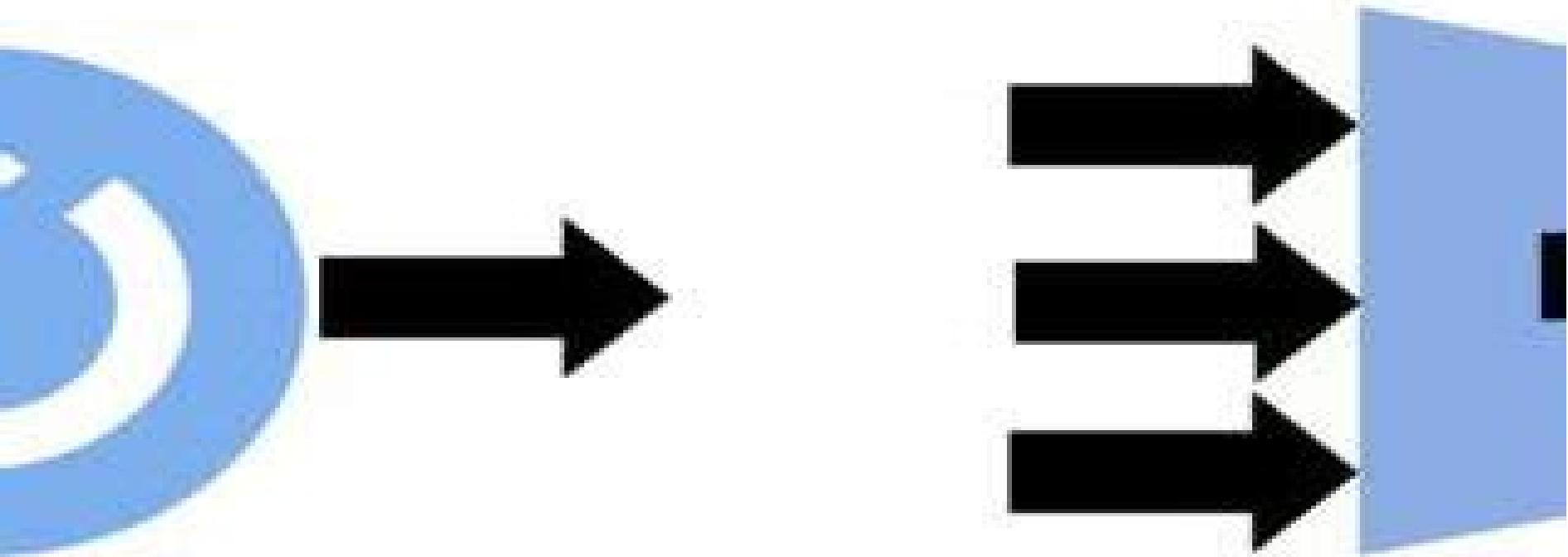


Artificial Intelligence gent Machine



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Logic For Artificial Intelligence

Dov M. Gabbay, J. A. Robinson



Logic For Artificial Intelligence:

Logic-Based Artificial Intelligence Jack Minker, 2012-12-06 The use of mathematical logic as a formalism for artificial intelligence was recognized by John McCarthy in 1959 in his paper on Programs with Common Sense In a series of papers in the 1960 s he expanded upon these ideas and continues to do so to this date It is now 41 years since the idea of using a formal mechanism for AI arose It is therefore appropriate to consider some of the research applications and implementations that have resulted from this idea In early 1995 John McCarthy suggested to me that we have a workshop on Logic Based Artificial Intelligence LBAI In June 1999 the Workshop on Logic Based Artificial Intelligence was held as a consequence of McCarthy s suggestion The workshop came about with the support of Ephraim Glinert of the National Science Foundation IIS 9S2013S the American Association for Artificial Intelligence who provided support for graduate students to attend and Joseph JaJa Director of the University of Maryland Institute for Advanced Computer Studies who provided both manpower and financial support and the Department of Computer Science We are grateful for their support This book consists of refereed papers based on presentations made at the Workshop Not all of the Workshop participants were able to contribute papers for the book The common theme of papers at the workshop and in this book is the use of logic as a formalism to solve problems in AI

Handbook of Logic in Artificial Intelligence and Logic Programming: Volume 5: Logic Programming Dov M. Gabbay, C. J. Hogger, J. A. Robinson, 1998-01-08 The Handbook of Logic in Artificial Intelligence and Logic Programming is a multi volume work covering all major areas of the application of logic to artificial intelligence and logic programming The authors are chosen on an international basis and are leaders in the fields covered Volume 5 is the last in this well regarded series Logic is now widely recognized as one of the foundational disciplines of computing It has found applications in virtually all aspects of the subject from software and hardware engineering to programming languages and artificial intelligence In response to the growing need for an in depth survey of these applications the Handbook of Logic in Artificial Intelligence and its companion the Handbook of Logic in Computer Science have been created The Handbooks are a combination of authoritative exposition comprehensive survey and fundamental research exploring the underlying themes in the various areas Some mathematical background is assumed and much of the material will be of interest to logicians and mathematicians Volume 5 focuses particularly on logic programming The chapters which in many cases are of monograph length and scope emphasize possible unifying themes

Logics for Artificial Intelligence Raymond Turner, 1984 In Logics for Artificial Intelligence Raymond Turner leads us on a whirl wind tour of nonstandard logics and their general applications to AI and computer science

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 concentration 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 disjunctive sentences like 'This sugar cube is soluble in water' 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 motivated by similar considerations: work in modal logic including tense, deontic and epistemic logic; intensional logics; non-declaratives; presuppositions and many other topics. In this sort of research since the main point is to devise new formalisms, the technical development tends to be rather shallow in comparison with mathematical logic though it is seldom 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.

Logics in Artificial Intelligence Sergio Flesca, Giovambattista Ianni, 2003-08-06 This book constitutes the refereed proceedings of the European Conference on Logics in Artificial Intelligence JELIA 2002 held in Cosenza Italy in September 2002. The 41 revised full papers presented together with 11 system descriptions and 3 invited contributions were carefully reviewed and selected from more than 100 submissions. The papers are organized in topical sections on multi agent systems; evolution and changes; description logic and the semantic web; complexity issues; probabilistic logic; AI planning; modal logic and causal reasoning; theory reasoning under uncertainty; satisfiability; paraconsistent reasoning; actions and caution logic for agents; semantics and optimization issues in answer set semantics.

Logics in Artificial Intelligence Manuel Ojeda-Aciego, 2000-09-20 This book constitutes the refereed proceedings of the European Workshop on Logics in Artificial Intelligence JELIA 2000 held in Malaga Spain in September/October 2000. The 24 revised full papers presented together with three invited papers were carefully reviewed and selected out of 60 submissions. The papers are organized in topical sections on knowledge representation; reasoning about actions; belief revision; theorem proving; argumentation; agents; decidability and complexity; updates and preferences.

Logics in Artificial Intelligence Craig MacNish, David Pearce, Luis M. Pereira, 1994-08-10 This book constitutes the proceedings of the 1994 European Workshop on Logics in Artificial Intelligence held at York UK in September 1994. The 24 papers presented were selected from a total of 79 submissions; in addition there are two abstracts of invited talks and one full paper of the invited presentation by Georg Gottlob. The papers point out that with the depth and maturity of formalisms and methodologies available in AI today logics provide a formal basis for the study of the whole field of AI. The volume offers sections on nonmonotonic reasoning; automated reasoning; logic programming; knowledge representation and belief revision.

Logics in Artificial Intelligence Luis Fariñas del Cerro, Andreas Herzig, Jérôme Mengin, 2012-09-07 This book constitutes the refereed proceedings of the 13th European Conference on Logics in Artificial Intelligence held in Toulouse France in September 2012. The book includes 3 invited talks, 36 regular papers and 5 system descriptions selected from 107 submissions. The papers cover various aspects of theory and methods of logic for artificial intelligence.

Handbook of Logic in Artificial Intelligence and Logic Programming

Dov M. Gabbay, Christopher John Hogger, John Alan Robinson, 1998 **Handbook of Logic in Artificial Intelligence and Logic Programming: Volume 5: Logic Programming** Dov M. Gabbay, J. A. Robinson, 1998-01-08 The Handbook of Logic in Artificial Intelligence and Logic Programming is a multi volume work covering all major areas of application of logic to artificial intelligence and logic programming The authors are chosen on an international basis and are leaders in the fields covered Volume 5 is the last in the well regarded series **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 Logical Foundations of Artificial Intelligence Michael R. Genesereth, Nils J. Nilsson, 2012-07-05 Intended both as a text for advanced undergraduates and graduate students and as a key reference work for AI researchers and developers Logical Foundations of Artificial Intelligence is a lucid rigorous and comprehensive account of the fundamentals of artificial intelligence from the standpoint of logic The first section of the book introduces the logicist approach to AI discussing the representation of declarative knowledge and featuring an introduction to the process of conceptualization the syntax and semantics of predicate calculus and the basics of other declarative representations such as frames and semantic nets This section also provides a simple but powerful inference procedure resolution and shows how it can be used in a reasoning system The next several chapters discuss nonmonotonic reasoning induction and reasoning under uncertainty broadening the logical approach to deal with the inadequacies of strict logical deduction The third section introduces modal operators that facilitate representing and reasoning about knowledge This section also develops the process of writing predicate calculus sentences to the metalevel to permit sentences about sentences and about reasoning processes The final three chapters discuss the representation of knowledge about states and actions planning and intelligent system architecture End of chapter bibliographic and historical comments provide background and point to other works of interest and research Each chapter also contains numerous student exercises with solutions provided in an appendix to reinforce concepts and challenge the learner A bibliography and index complete this comprehensive work **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 **Logic for Programming, Artificial Intelligence, and Reasoning** Moshe

Vardi, Andrei Voronkov, 2003-12-01 This book constitutes the refereed proceedings of the 10th International Conference on Logic Programming Artificial Intelligence and Reasoning LPAR 2003 held in Almaty Kazakhstan in September 2003 The 27 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 65 submissions The papers address all current issues in logic programming automated reasoning and AI logics in particular description logics proof theory logic calculi formal verification model theory game theory automata proof search constraint systems model checking and proof construction

Fuzzy Logic in Artificial Intelligence Anca L. Ralescu, James G. Shanahan, 2014-01-15

Fuzzy Logic in Artificial Intelligence Anca Ralescu, 2014-01-15 *Logic Programming* Maria Garcia Banda, Enrico Pontelli, 2008-12-15 This book constitutes the refereed proceedings of the 24th International Conference on Logic Programming ICLP 2008 held in Udine Italy in December 2008 The 35 revised full papers together with 2 invited talks 2 invited tutorials 11 papers of the co located first Workshop on Answer Set Programming and Other Computing Paradigms ASPOCP 2008 as well as 26 poster presentations and the abstracts of 11 doctoral consortium articles were carefully reviewed and selected from 177 initial submissions The papers cover all issues of current research in logic programming they are organized in topical sections on applications algorithms systems and implementations semantics and foundations analysis and transformations CHRs and extensions implementations and systems answer set programming and extensions as well as constraints and optimizations

AI*IA 2005: Advances in Artificial Intelligence Sara Manzoni, 2005-10-06 This volume collects the papers selected for presentation at the IX Congress of the Italian Association for Artificial Intelligence AI IA held in Milan at the University of Milano Bicocca September 21-23 2005 On the one hand this congress continues the tradition of AI IA in organizing its biannual scientific meeting from 1989 on the other hand this edition is a landmark in the involvement of the international community of artificial intelligence AI directly involving a broad number of experts from several countries in the Program Committee Moreover the peculiar nature of scientific research in artificial intelligence which is intrinsically international and several consolidated international collaborations in projects and mobility programs allowed the collection and selection of papers from many different countries all around the world enlarging the visibility of the Italian contribution within this research field Artificial intelligence is today a growing complex set of conceptual theoretical methodological and technological frameworks offering innovative computational solutions in the design and development of computer based systems Within this perspective researchers working in this area must tackle a broad range of knowledge about methods results and solutions coming from different classical areas of this discipline The congress was designed as a forum allowing researchers to present and discuss specialized results as general contributions to AI growth

Markov Logic Pedro Domingos, Daniel Lowd, 2009-05-08 Most subfields of computer science have an interface layer via which applications communicate with the infrastructure and this is key to their success e.g. the Internet in networking the relational model in databases etc So far this interface layer has been missing in AI First order logic and probabilistic graphical models each have

some of the necessary features but a viable interface layer requires combining both Markov logic is a powerful new language that accomplishes this by attaching weights to first order formulas and treating them as templates for features of Markov random fields Most statistical models in wide use are special cases of Markov logic and first order logic is its infinite weight limit Inference algorithms for Markov logic combine ideas from satisfiability Markov chain Monte Carlo belief propagation and resolution Learning algorithms make use of conditional likelihood convex optimization and inductive logic programming Markov logic has been successfully applied to problems in information extraction and integration natural language processing robot mapping social networks computational biology and others and is the basis of the open source Alchemy system *Advances in Logic, Artificial Intelligence and Robotics* Jair Minoro Abe, J. I. Da Silva Filho, 2002 Logic both Classical and Non Classical is being increasingly related with other fields in almost every scientific discipline and human activity In this volume we have emphasized its role in the following fields of science Artificial Intelligence Robotics Informatics in general Technology and correlated themes The papers are written by some of the most prominent scientists of today

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