

- Typically a DL knowledge base (KB) consists of two components
 - Tbox (terminology): A set of inclusion/equivalence axioms denoting the conceptual schema/vocabulary of a domain
 - $\text{Bear} \sqsubseteq \text{Animal} \sqcap \text{Large}$
 - $\text{transitive}(\text{hasAncestor})$
 - $\text{hasChild} \equiv \text{hasParent}$
 - Abox (assertions): Axioms, which describe concrete instance data and holds assertions about individuals
 - $\text{hasAncestor}(\text{Susan}, \text{Granny})$
 - $\text{Bear}(\text{Winni Puh})$
- From a theoretical point of view this division is arbitrary but it is a useful simplification

The Logic Of Knowledge Bases

DP Hallahan



The Logic Of Knowledge Bases:

The Logic of Knowledge Bases Hector J. Levesque, Gerhard Lakemeyer, 2001-02-15 This book describes in detail the relationship between symbolic representations of knowledge and abstract states of knowledge exploring along the way the foundations of knowledge knowledge bases knowledge based systems and knowledge representation and reasoning The idea of knowledge bases lies at the heart of symbolic or traditional artificial intelligence A knowledge based system decides how to act by running formal reasoning procedures over a body of explicitly represented knowledge a knowledge base The system is not programmed for specific tasks rather it is told what it needs to know and expected to infer the rest This book is about the logic of such knowledge bases It describes in detail the relationship between symbolic representations of knowledge and abstract states of knowledge exploring along the way the foundations of knowledge knowledge bases knowledge based systems and knowledge representation and reasoning Assuming some familiarity with first order predicate logic the book offers a new mathematical model of knowledge that is general and expressive yet more workable in practice than previous models The book presents a style of semantic argument and formal analysis that would be cumbersome or completely impractical with other approaches It also shows how to treat a knowledge base as an abstract data type completely specified in an abstract way by the knowledge level operations defined over it *The Logic of Knowledge Bases* Hector J. Levesque, Gerhard Lakemeyer, 2000 This book describes in detail the relationship between symbolic representations of knowledge and abstract states of knowledge exploring along the way the foundations of knowledge knowledge bases knowledge based systems and knowledge representation and reasoning **Evolving Knowledge Bases** João Alexandre Leite, 2003 An Evolving Knowledge Base EKB is capable of self evolution by means of its internally specified behaviour In this thesis the author incrementally specifies semantically characterizes and illustrates with examples the concepts and tools necessary to the development of EKBs Foundations of Knowledge Base Management Joachim W. Schmidt, Costantino Thanos, 2012-12-06 In the past applied artificial intelligence systems were built with particular emphasis on general reasoning methods intended to function efficiently even when only relatively little domain specific knowledge was available In other words AI technology aimed at the processing of knowledge stored under comparatively general representation schemes Nowadays the focus has been redirected to the role played by specific and detailed knowledge rather than to the reasoning methods themselves Many new application systems are centered around knowledge bases i e they are based on large collections of facts rules and heuristics that capture knowledge about a specific domain of applications Experience has shown that when used in combination with rich knowledge bases even simple reasoning methods can be extremely effective in a wide variety of problem domains Knowledge base construction and management will thus become the key factor in the development of viable knowledge based applications Knowledge Base Management Systems KBMSs are being proposed that provide user friendly environments for the construction retrieval and manipulation of large shared knowledge bases In

addition to deductive reasoning KBMSs require operational characteristics such as concurrent access integrity maintenance error recovery security and perhaps distribution For the development of KBMSs the need to integrate concepts and technologies from different areas such as Artificial Intelligence Databases and Logic has been widely recognized One of the central issues for KBMSs is the framework used for knowledge representation semantic networks frames rules and logics are proposed by the AI and logic communities

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Fuzzy Logic Knowledge Bases in Integrated Landscape Assessment Keith M. Reynolds, 2001

The role of logic for data- and knowledge bases Wolfgang Bibel, J. M.

Nicolas, 1986

Information Modelling and Knowledge Bases XXXII Marina Tropmann-Frick, Bernhard

Thalheim, Yasushi Kiyoki, Naofumi Yoshida, 2021-01-15 Information modeling and knowledge bases are important technologies for academic and industrial research that goes beyond the traditional borders of information systems and computer science The amount and complexity of information to be dealt with grows continually as do the levels of abstraction and the size of databases This book presents the proceedings of the 30th International Conference on Information Modelling and Knowledge Bases EJC2020 due to be held in Hamburg Germany on 8 and 9 June 2020 but instead held as a virtual conference on the same dates due to the Corona virus pandemic restrictions The conference provides a research forum for the exchange of scientific results and experiences and brings together experts from different areas of computer science and other disciplines with a common interest in information modeling and knowledge bases The subject touches on many disciplines with

philosophy and logic cognitive science knowledge management linguistics and management science as well as the emerging fields of data science and machine learning all being relevant areas The 23 reviewed selected and upgraded contributions included here are the result of presentations comments and discussions from the conference and reflect the themes of the conference sessions learning and linguistics systems and processes data and knowledge representation models and interfaces formalizations and reasoning models and modeling machine learning models and programming environment and predictions modeling emotion and social networks The book provides an overview of current research and applications and will be of interest to all those working in the field

Semantics in Data and Knowledge Bases Klaus-Dieter Schewe, Bernhard Thalheim, 2008-10-21 This book constitutes the thoroughly refereed post workshop proceedings of the Third International Workshop on Semantics in Data and Knowledge Bases SDKB 2008 held in Nantes France on March 29 2008 The 6 revised full papers presented together with 4 invited papers and a survey on the state of the art in the field were carefully reviewed and selected for inclusion in the book The SDKB workshop presented original contributions demonstrating the use of logic discrete mathematics combinatorics domain theory and other mathematical theories of semantics for database and knowledge bases computational linguistics and semiotics and information and knowledge based systems

Towards Very Large Knowledge Bases N. J. I. Mars, 1995 In the early days of artificial intelligence it was widely believed that powerful computers would in the future enable mankind to solve many real world problems through the use of very general inference procedures and very little domain specific knowledge With the benefit of hindsight this view can now be called quite naive The field of expert systems which developed during the early 1970s embraced the paradigm that Knowledge is Power even very fast computers require very large amounts of very specific knowledge to solve non trivial problems Thus the field of large knowledge bases has emerged

Foundations of Knowledge Systems Gerd Wagner, 2012-12-06 One of the main uses of computer systems is the management of large amounts of symbolic information representing the state of some application domain such as information about all the people I communicate with in my personal address database or relevant parts of the outer space in the knowledge base of a NASA space mission While database management systems offer only the basic services of information storage and retrieval more powerful knowledge systems offer in addition a number of advanced services such as deductive and abductive reasoning for the purpose of finding explanations and diagnoses or generating plans In order to design and understand database and knowledge based applications it is important to build upon well established conceptual and mathematical foundations What are the principles behind database and knowledge systems What are their major components Which are the important cases of knowledge systems What are their limitations Addressing these questions and discussing the fundamental issues of information update knowledge assimilation integrity maintenance and inference based query answering is the purpose of this book Foundations of Databases and Knowledge Systems covers both basic and advanced topics It may be used as the textbook of a course offering a broad introduction to databases and

knowledge bases or it may be used as an additional textbook in a course on databases or Artificial Intelligence Professionals and researchers interested in learning about new developments will benefit from the encyclopedic character of the book which provides organized access to many advanced concepts in the theory of databases and knowledge bases Relational Databases and Knowledge Bases Georges Gardarin, Patrick Valduriez, 1989 Relational Databases and Knowledge Bases is written from a systems implementation point of view No previous knowledge of relational data base technology is needed the text follows a natural progression from introductory matter such as file systems to more advanced topics such as deductive databases The inclusion of knowledge bases recognizes recent developments in artificial intelligence and expert systems

Knowledge Integration Methods for Probabilistic Knowledge-based Systems Van Tham Nguyen, Ngoc Thanh Nguyen, Trong Hieu Tran, 2022-12-30 Knowledge based systems and solving knowledge integrating problems have seen a great surge of research activity in recent years Knowledge Integration Methods provides a wide snapshot of building knowledge based systems inconsistency measures methods for handling consistency and methods for integrating knowledge bases The book also provides the mathematical background to solving problems of restoring consistency and integrating probabilistic knowledge bases in the integrating process The research results presented in the book can be applied in decision support systems semantic web systems multimedia information retrieval systems medical imaging systems cooperative information systems and more This text will be useful for computer science graduates and PhD students in addition to researchers and readers working on knowledge management and ontology interpretation **Knowledge Discovery, Knowledge Engineering and Knowledge Management** Ana Fred, Jan L.G. Dietz, Kecheng Liu, Joaquim Filipe, 2015-04-24 This book constitutes the thoroughly refereed proceedings of the 5th International Joint Conference on Knowledge Discovery Knowledge Engineering and Knowledge Management IC3K 2013 held in Vilamoura Portugal in September 2013 The 27 full papers presented together with two invited papers were carefully reviewed and selected from 239 submissions The papers are organized in topical sections on knowledge discovery and information retrieval knowledge engineering and ontology development knowledge management and information sharing **Principles of Database and Knowledge-base Systems** Jeffrey D. Ullman, 1988 Toward a Theory of Hybrid Knowledge Bases James J. Lu, Anil Nerode, V. S. Subrahmanian, Jeffrey B. Remmel, 1993 **Theories and Tools for Designing Application-specific Knowledge Base Data Models** Mark Graves, 1993 **Information Modelling and Knowledge Bases**, 1996 **The Intuitive Basis of Knowledge** Nikolai Onufrievich Losskii, 1919 *Information Modelling and Knowledge Bases XIII* Hannu Kangassalo, 2002 A collection of papers presented in the 11th European Japanese Conference on Information Modelling and Knowledge Bases held in Maribor Slovenia This annually organized conference brings together the leading researchers from Europe and Japan to introduce the latest results of their research

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