- 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
    - Bear $\sqsubseteq$ Animal $\sqcap$ Large
    - transitive(hasAncestor)
    - hasChild $\equiv$ hasParent

  - Abox (assertions): Axioms, which describe concrete instance data and holds assertions about individuals
    - hasAncestor(Susan, Granny)
    - Bear(Winni Puh)

- From a theoretical point of view this division is arbitrary but it is a useful simplification

The Logic Of Knowledge Bases

John A. Stankovic,Krithi Ramamritham

The Logic Of Knowledge Bases:

   The Logic of Knowledge Bases Hector Levesque,Gerhard Lakemeyer,2023-01-02 The idea of a knowledge base lies at the heart of symbolic or good old fashioned artificial intelligence GOFAI A knowledge based system decides how to act by running formal reasoning procedures over a body of explicitly represented knowledge its 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 rigorous mathematical model of knowledge that is general and expressive yet more workable in practice than previous models The first edition of the book appeared in the year 2000 and since then its model of knowledge has been applied and extended in a number of ways This second edition incorporates a number of new results about the logic of knowledge bases including default reasoning reasoning about action and change and tractable reasoning Hector Levesque is Professor Emeritus in the Department of Computer Science University of Toronto Gerhard Lakemeyer is Professor and Chair of the Department of Computer Science RWTH Aachen University and Professor status only in the Department of Computer Science University of Toronto   **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 offacts rules and heuristics that cap ture 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 ap plications 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 ofKBMSs the need to integrate concepts and technologies from different areas such as Artificial Intel ligence 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   **Foundations of Knowledge Base Management** Joachim W.

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Andreasen,Henning Christiansen,2013-08-28 This book constitutes the refereed proceedings of the 10th International Conference on Flexible Query Answering Systems FQAS 2013 held in Granada Spain in September 2013 The 59 full papers included in this volume were carefully reviewed and selected from numerous submissions The papers are organized in a general session train and a parallel special session track The general session train covers the following topics querying answering systems semantic technology patterns and classification personalization and recommender systems searching and ranking and Web and human computer interaction The special track covers some specific and typically newer fields namely environmental scanning for strategic early warning generating linguistic descriptions of data advances in fuzzy querying and fuzzy databases theory and applications fusion and ensemble techniques for online learning on data streams and intelligent information extraction from texts *Artificial Intelligence in the Pacific Rim* Hozumi Tanaka,1991 In the last decade AI firmly settled into our industrial society with the expert systems as the representative product However almost every one of the systems could cover only a single task domain In the highly mechanized world of the 21st century systems will become smart and user friendly enough to cover a wide range of task domains Systems with much user friendliness must be multilingual because users in different domains usually have different languages Language is formed in its own culture Therefore promotion for cross cultural scientific interchange will be indispensable for the progress of AI **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 *Information Modelling and Knowledge Bases* ,1996 *Electronic Globalized Business and Sustainable Development Through IT Management: Strategies and Perspectives* Ordóñez de Pablos, Patricia,Lytras, Miltiadis,Karwowski, Waldemar,Lee, Rongbin W.B.,2010-08-31 This book provides fresh ideas on how IT and modern management can contribute to societal and economic objectives and the significant role of IT for global challenges and international collaboration Provided by publisher **PRICAI 2006: Trends in Artificial Intelligence** Quiang Yang,Geoff Webb,2008-02-20 This book constitutes the refereed proceedings of the 9th Pacific Rim International Conference on Artificial Intelligence PRICAI 2006 held in Guilin China in August 2006 The book presents 81 revised full papers and 87 revised short papers together with 3 keynote talks The papers are organized in topical sections on intelligent agents automated reasoning machine learning and data mining natural language processing and speech recognition computer vision perception and animation and more **Fuzzy XML Data Management** Li Yan,Zongmin Ma,Fu Zhang,2013-11-25 This book presents an exhaustive and timely review of key research work on fuzzy XML data management and provides readers with a

comprehensive resource on the state of the art tools and theories in this fast growing area Topics covered in the book include representation of fuzzy XML query of fuzzy XML fuzzy database models extraction of fuzzy XML from fuzzy database models reengineering of fuzzy XML into fuzzy database models and reasoning of fuzzy XML The book is intended as a reference guide for researchers practitioners and graduate students working and or studying in the field of Web Intelligence as well as for data and knowledge engineering professionals seeking new approaches to replace traditional methods which may be unnecessarily complex or even unproductive **Social Computing** Wanxiang Che,Qilong Han,Hongzhi Wang,Weipeng Jing,Shaoliang Peng,Junyu Lin,Guanglu Sun,Xianhua Song,Hongtao Song,Zeguang Lu,2016-07-30 This two volume set CCIS 623 and 634 constitutes the refereed proceedings of the Second International Conference of Young Computer Scientists Engineers and Educators ICYCSEE 2016 held in Harbin China in August 2016 The 91 revised full papers presented were carefully reviewed and selected from 338 submissions The papers are organized in topical sections on Research Track Part I and Education Track Industry Track and Demo Track Part II and cover a wide range of topics related to social computing social media social network analysis social modeling social recommendation machine learning data mining *The role of logic for data- and knowledge bases* Wolfgang Bibel,J. M. Nicolas,1986 **Information Modelling and Knowledge Bases III** Setsuo Ohsuga,1992 Papers direct the focus of interest to the development and use of conceptual models in information systems of various kinds and aim at improving awareness about general or specific problems and solutions in conceptual modelling **Mind** ,1877 Expert System Technology Robert Keller,1987 Tutorial Hard Real-time Systems John A. Stankovic,Krithi Ramamritham,1988 Evolving Knowledge Bases ,2003 In this book we incrementally specify semantically characterize and illustrate with examples the concepts and tools necessary to the development of Evolving Knowledge Bases EKB An EKB is a knowledge base which can not only be externally updated but is also capable of self evolution by means of its internally specified behavior To this purpose we first define the notion of Dynamic Logic Programming based on the concept of Logic Program Updates which characterizes knowledge given by a sequence of logic programs each representing a state of the world Then we set forth a language capable of uniformly specify both the external updates as well as the knowledge base s internal behaviour and its updates *Validating and Verifying Knowledge-based Systems* Uma G. Gupta,1991 This collection of previously published papers brings together state of the art developments in expert system testing The volume is separated into five chapters on expert system validation knowledge base verification development and evaluation case studies and tools and general topics The pape

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