KNOWLEDGE REPRESENTATION AND REASONING

Knowledge Representation And Reasoning

Anthony G. Cohn,Lenhart Schubert,Stuart Charles Shapiro

Knowledge Representation And Reasoning:

Readings in Knowledge Representation Ronald J. Brachman,Hector J. Levesque,1985 In Artificial Intelligence it is often said that the representation of knowledge is the key to the design of robust intelligent systems In one form or another the principles of Knowledge Representation are fundamental to work in natural language processing computer vision knowledge based expert systems and other areas The papers reprinted in this volume have been collected to allow the reader with a general technical background in AI to explore the subtleties of this key subarea These seminal articles spanning a quarter century of research cover the most important ideas and developments in the representation field The editors introduce each paper discuss its relevance and context and provide an extensive bibliography of other work Readings in Knowledge Representation is intended to serve as a complete sourcebook for the study of this crucial subject   Principles of Knowledge Representation and Reasoning James Allen,Richard E. Fikes,Erik Sandewall,1991 The proceedings of the Second International Conference on 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 ana   Knowledge Representation T.J.M. Bench-Capon,2014-06-28 Although many texts exist offering an introduction to artificial intelligence AI this book is unique in that it places an emphasis on knowledge representation KR concepts It includes small scale implementations in PROLOG to illustrate the major KR paradigms and their developments back cover copy Knowledge representation is at the heart of the artificial intelligence enterprise anyone writing a program which seeks to work by encoding and manipulating knowledge needs to pay attention to the scheme whereby he will represent the knowledge and to be aware of the consequences of the choices made The book s distinctive approach introduces the topic of AI through a study of knowledge representation issues It assumes a basic knowledge of computing and a familiarity with the principles of elementary formal logic would be advantageous Knowledge Representation An Approach to Artificial Intelligence develops from an introductory consideration of AI knowledge representation and logic through search technique to the three central knowledge paradigms production rules structured objects and predicate calculus The final section of the book illustrates the application of these knowledge representation paradigms through the Prolog Programming language and with an examination of diverse expert systems applications The book concludes with a look at some advanced issues in knowledge representation This text provides an introduction to AI through a study of knowledge representation and each chapter contains exercises for students Experienced computer scientists and students alike seeking an introduction to AI and knowledge representations will find this an invaluable text   Principles of Knowledge Representation and Reasoning Anthony G. Cohn,Lenhart Schubert,Stuart Charles Shapiro,1998   *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 an 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 **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 langu *Principles of Knowledge Representation and Reasoning* Luigia Carlucci Aiello,Jon Doyle,Stuart Charles Shapiro,1996 **Knowledge Representation and Reasoning** Ronald Brachman,Hector Levesque,2004-05-19 Knowledge representation is at the very core of a radical idea for understanding intelligence This book talks about the central concepts of knowledge representation developed over the years It is suitable for researchers and practitioners in database management information retrieval object oriented systems and artificial intelligence **Principles of Knowledge Representation and Reasoning** A. G. Cohn,Fausto Giunchiglia,Bart Selman,2000 **Principles of Knowledge Representation and Reasoning** Jon Doyle,Erik Sandewall,Pietro Torasso,2014 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 Handbook of Knowledge Representation Frank van Harmelen,Vladimir Lifschitz,Bruce Porter,2008-01-08 Handbook of Knowledge Representation describes the essential foundations of Knowledge Representation which lies at the core of Artificial Intelligence AI The book provides an up to date review of twenty five key topics in knowledge representation written by the leaders of each field It includes a tutorial background and cutting edge developments as well as applications of Knowledge Representation in a variety of AI systems This handbook is organized into three parts Part I deals with general methods in Knowledge Representation and reasoning and covers such topics as classical logic in Knowledge Representation satisfiability solvers description logics constraint programming conceptual graphs nonmonotonic reasoning model based problem solving and Bayesian networks Part II focuses on classes of knowledge and specialized representations with chapters on temporal

representation and reasoning spatial and physical reasoning reasoning about knowledge and belief temporal action logics and nonmonotonic causal logic Part III discusses Knowledge Representation in applications such as question answering the semantic web automated planning cognitive robotics multi agent systems and knowledge engineering This book is an essential resource for graduate students researchers and practitioners in knowledge representation and AI Make your computer smarter Handle qualitative and uncertain information Improve computational tractability to solve your problems easily   Knowledge Representation and Reasoning Under Uncertainty Michael Masuch,Laszlo Polos,1994-06-28 This volume is based on the International Conference Logic at Work held in Amsterdam The Netherlands in December 1992 The 14 papers in this volume are selected from 86 submissions and 8 invited contributions and are all devoted to knowledge representation and reasoning under uncertainty which are core issues of formal artificial intelligence Nowadays logic is not any longer mainly associated to mathematical and philosophical problems The term applied logic has a far wider meaning as numerous applications of logical methods particularly in computer science artificial intelligence or formal linguistics testify As demonstrated also in this volume a variety of non standard logics gained increased importance for knowledge representation and reasoning under uncertainty   **Part-Whole Reasoning in an Object-Centered Framework** Patrick Lambrix,2003-06-29 In this book the author develops an object centered framework with specialized support of the part of relation based on description logics These logics are a family of object centered knowledge representation languages tailored for describing knowledge about concepts and is a hierarchies of these concepts In addition to the representation and reasoning facilities provided by description logics for is a representation and reasoning facilities are introduced for part of Finally the feasibility and the usefulness of the approach is demonstrated by applying the framework to various areas including domain modeling agent oriented scenarios document management and retrieval and composite concept learning   **Foundations of Knowledge Representation and Reasoning** Gerhard Lakemeyer,Bernhard Nebel,1994-06-28 The papers collected in this book cover a wide range of topics in asymptotic statistics In particular up to date information is presented in detection of systematic changes in series of observation in robust regression analysis in numerical empirical processes and in related areas of actuarial sciences and mathematical programming The emphasis is on theoretical contributions with impact on statistical methods employed in the analysis of experiments and observations by biometricians econometricians and engineers   **Knowledge Representation and Defeasible Reasoning** Henry E. Kyburg Jr.,R.P. Loui,G.N. Carlson,2012-12-06 This series will include monographs and collections of studies devoted to the investigation and exploration of knowledge information and data processing systems of all kinds no matter whether human other ani mal or machine Its scope is intended to span the full range of interests from classical problems in the philosophy of mind and philosophical psy chology through issues in cognitive psychology and sociobiology concerning the mental capabilities of other species to ideas related to artificial intelli gence and computer science While primary emphasis will be placed upon

theoretical conceptual and epistemological aspects of these problems and domains empirical experimental and methodological studies will also ap pear from time to time The present volume provides a collection of studies that focus on some of the central problems within the domain of artificial intelligence These difficulties fall into four principal areas defeasible reasoning including the frame problem as apart ordinary language and the representation prob lems that it generates the revision of beliefs and its rules of inference and knowledge representation and the logical problems that are encountered there These papers make original contributions to each of these areas of inquiry and should be of special interest to those who understand the crucial role that is played by questions of logical form They vividly illustrate the benefits that can emerge from collaborative efforts involving scholars from linguistics philosophy computer science and AI J H F

Knowledge Representation Han Reichgelt,1991 Most researchers to date in artificial intelligence has been based on the knowledge representation hypothesis that is the assumption that in any artificial intelligence AI programme there is a separate module which represents the information that the programme has about the world As a result a number of so called knowlege representation formalisms have been developed for representing this kind of information in a computer   A Guided Tour of Artificial Intelligence Research Pierre Marquis,Odile Papini,Henri Prade,2020-05-08 The purpose of this book is to provide an overview of AI research ranging from basic work to interfaces and applications with as much emphasis on results as on current issues It is aimed at an audience of master students and Ph D students and can be of interest as well for researchers and engineers who want to know more about AI The book is split into three volumes the first volume brings together twenty three chapters dealing with the foundations of knowledge representation and the formalization of reasoning and learning Volume 1 Knowledge representation reasoning and learning the second volume offers a view of AI in fourteen chapters from the side of the algorithms Volume 2 AI Algorithms the third volume composed of sixteen chapters describes the main interfaces and applications of AI Volume 3 Interfaces and applications of AI Implementing reasoning or decision making processes requires an appropriate representation of the pieces of information to be exploited This first volume starts with a historical chapter sketching the slow emergence of building blocks of AI along centuries Then the volume provides an organized overview of different logical numerical or graphical representation formalisms able to handle incomplete information rules having exceptions probabilistic and possibilistic uncertainty and beyond as well as taxonomies time space preferences norms causality and even trust and emotions among agents Different types of reasoning beyond classical deduction are surveyed including nonmonotonic reasoning belief revision updating information fusion reasoning based on similarity case based interpolative or analogical as well as reasoning about actions reasoning about ontologies description logics argumentation and negotiation or persuasion between agents Three chapters deal with decision making be it multiple criteria collective or under uncertainty Two chapters cover statistical computational learning and reinforcement learning other machine learning topics are covered in Volume 2 Chapters on diagnosis and supervision validation and explanation and

knowledge base acquisition complete the volume **Knowledge Representation, Reasoning and Declarative Problem Solving** Chitta Baral,2003-01-09 Knowledge management and knowledge based intelligence are areas of importance in the economy and society and to exploit them fully and efficiently it is necessary both to represent and reason about knowledge via a declarative interface whose input language is based on logic In this book originally published in 2003 Chitta Baral shows exactly how to go about doing that how to write programs that behave intelligently by giving them the ability to express knowledge and reason about it He presents a language AnsProlog for both knowledge representation and reasoning and declarative problem solving The results have been organised here into a form that will appeal to practising and would be knowledge engineers wishing to learn more about the subject either in courses or through self teaching A comprehensive bibliography rounds off the book **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 **Foundations of Knowledge Representation and Reasoning** Gerhard Lakemeyer,Bernhard Nebel,2014-01-15

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