

Part-Whole Reasoning in Object-Centered Frameworks

Patrick Lambrix
Linköpings universitet

Partwhole Reasoning In An Objectcentered Framework

Zbigniew W. Ras, Andrzej Skowron



Partwhole Reasoning In An Objectcentered Framework:

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

Formal Ontology in Information Systems Carola Eschenbach, Michael Gruninger, 2008 Since its start ten years ago the International Conference in Formal Ontology on Information Systems FOIS has explored the multiple perspectives on the notion of ontology that have arisen from such diverse research communities as philosophy logic computer science cognitive science linguistics and various scientific domains As ontologies have been applied in new and exciting domains such as the World Wide Web bioinformatics and geographical information systems it has become evident that there is a need for ontologies that have been developed with solid theoretical foundations based on philosophical linguistic and logical analysis Similarly there is also a need for theoretical research that is driven by the issues that have been raised by recent work in the more applied domains FOIS is intended to be a forum in which to explore this interplay between the theoretical insights of formal ontology and their application to information systems and emerging semantic technologies Themes emerging from this volume give a snapshot of current issues within the fields of formal ontology and ontological engineering as well providing a glimpse of future research directions

BOOK JACKET *Conceptual Modeling of Information Systems* Antoni Olivé, 2007-08-28 This brilliant textbook explains in detail the principles of conceptual modeling independently from particular methods and languages and shows how to apply them in real world projects The author covers all aspects of the engineering process from structural modeling over behavioral modeling to meta modeling and completes the presentation with an extensive case study based on the osCommerce system Written for computer science students in classes on information systems modeling as well as for professionals feeling the need to formalize their experiences or to update their knowledge Oliv delivers here a comprehensive treatment of all aspects of the modeling process His book is complemented by lots of exercises and additional online teaching material

Foundations of Intelligent Systems Zbigniew Raś, Andrzej Skowron, 1999 This book constitutes the refereed proceedings of the 11th International Symposium on Methodologies for Intelligent Systems ISMIS 99 held in Warsaw Poland in June 1999 The 66 revised full papers presented together with five invited papers were carefully reviewed and selected from a total of 115 submissions The volume is divided into topical sections on logics for AI intelligent information retrieval intelligent information systems learning and knowledge discovery computer vision knowledge representation and

evolutionary computation **Logic Versus Approximation** Wolfgang Lenski (Ed),2004-10-27 Nowadays knowledge based systems research and development essentially employs two paradigms of reasoning There are on the one hand the logic based approaches where logic is to be understood in a rather broad sense usually these approaches are used in symbolic domains where numerical calculations are not the core challenge On the other hand we find approximation oriented reasoning methods of these kinds are mainly applied in numerical domains where approximation is part of the scientific methodology itself However from an abstract level all these approaches do focus on similar topics and arise on various levels such as problem modeling inference and problem solving techniques algorithms and mathematical methods mathematical relations between discrete and continuous properties and are integrated in tools and applications In accordance with the unifying vision and research interest of Michael M Richter and in correspondence to his scientific work this book presents 13 revised full papers advocating the integration of logic based and approximation oriented approaches in knowledge processing

Mereology A. J. Cotnoir,Achille C. Varzi,2021 Aaron Cotnoir and Achille Varzi present a comprehensive and up to date guide to mereology the study of relations between parts and wholes They introduce a variety of theories and offer all the tools needed to engage in this ever evolving field of inquiry for readers at all levels from newcomers to experts Annual Review of Information Science and Technology Information Today Inc,2005-10 ARIST published annually since 1966 is a landmark publication within the information science community It surveys the landscape of information science and technology providing an analytical authoritative and accessible overview of recent trends and significant developments The range of topics varies considerably reflecting the dynamism of the discipline and the diversity of theoretical and applied perspectives While ARIST continues to cover key topics associated with classical information science e g bibliometrics information retrieval editor Blaise Cronin is selectively expanding its footprint in an effort to connect information science more tightly with cognate academic and professional communities Contents of Volume 40 2006 SECTION I Information and Society Chapter 1 The Micro and Macroeconomics of Information Sandra Braman Chapter 2 The Geographies of the Internet Matthew Zook Chapter 3 Open Access M Carl Drott SECTION II Technologies and Systems Chapter 4 TREC An Overview Donna K Harman and Ellen M Voorhees Chapter 5 Semantic Relations in Information Science Christopher S G Khoo and Jin Cheon Na Chapter 6 Intelligence and Security Informatics Hsinchun Chen and Jennifer Xu SECTION III Information Needs and Use Chapter 7 Information Behavior Donald O Case Chapter 8 Collaborative Information Seeking and Retrieval Jonathan Foster Chapter 9 Information Failures in Health Care Anu MacIntosh Murray and Chun Wei Choo Chapter 10 Workplace Studies and Technological Change Angela Cora Garcia Mark E Dawes Mary Lou Kohne Felicia Miller and Stephan F Groschwitz SECTION IV Theoretical Perspectives Chapter 11 Information History Alistair Black Chapter 12 Social Epistemology and Information Science Don Fallis Chapter 13 Formal Concept Analysis in Information Science Uta Priss

Part-Whole Reasoning in an Object-Centered Framework Patrick Lambrix,2000-02-23 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

Principles of Knowledge Representation and Reasoning A. G. Cohn, Fausto Giunchiglia, Bart Selman, 2000

Math on the Move Malke Rosenfeld, 2016-10-18 Kids love to move But how do we harness all that kinetic energy effectively for math learning In Math on the Move Malke Rosenfeld shows how pairing math concepts and whole body movement creates opportunities for students to make sense of math in entirely new ways Malke shares her experience creating dynamic learning environments by exploring the use of the body as a thinking tool highlighting mathematical ideas that are usefully explored with a moving body providing a range of entry points for learning to facilitate a moving math classroom Publisher description

Information Modelling and Knowledge Bases XIII Hannu Kangassalo, H. Jaakkola, E. Kawaguchi, 2002 This is 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

Bibliographic Guide to Psychology New York Public Library. Research Libraries, 2000

Foundations of Intelligent Systems, 2002

Principles of Knowledge Representation and Reasoning Luigia Carlucci Aiello, Jon Doyle, Stuart Charles Shapiro, 1996

Foundations of Intelligent Systems Zbigniew W. Ras, Andrzej Skowron, 1997-09-29 This book constitutes the refereed proceedings of the 10th International Symposium on Methodologies for Intelligent Systems ISMIS 97 held in Charlotte NC USA in October 1997 The 57 revised full papers were selected from a total of 117 submissions Also included are four invited papers Among the topics covered are intelligent information systems approximate reasoning evolutionary computation knowledge representation and integration learning and knowledge discovery AI Logics discovery systems data mining query processing etc

Computer-aided Verification, 2000

Information Security and Privacy, 2000

Intelligent Databases Zongmin Ma, 2007-01-01 This book integrates data management in databases with intelligent data processing and analysis in artificial intelligence It challenges today's database technology and promotes its evolution Provided by publisher

ECAI 2000 European Coordinating Committee for Artificial Intelligence, 2000 This volume covers the whole spectrum of artificial intelligence including knowledge representation automated reasoning constraint based reasoning machine learning autonomous agents human language technology planning vision and robotics and AI aspects of uncertainty and of creativity The book further includes contributions on innovative application All contributions are peer reviewed by an international Programme Committee

Database Technologies: Concepts,

Methodologies, Tools, and Applications Erickson, John, 2009-02-28 This reference expands the field of database technologies through four volumes of in depth advanced research articles from nearly 300 of the world s leading professionals Provided by publisher

Whispering the Secrets of Language: An Emotional Journey through **Partwhole Reasoning In An Objectcentered Framework**

In a digitally-driven world wherever displays reign supreme and instant communication drowns out the subtleties of language, the profound secrets and emotional nuances concealed within phrases frequently go unheard. However, located within the pages of **Partwhole Reasoning In An Objectcentered Framework** a fascinating literary treasure pulsing with organic thoughts, lies a fantastic quest waiting to be undertaken. Penned by a talented wordsmith, that marvelous opus encourages visitors on an introspective trip, lightly unraveling the veiled truths and profound affect resonating within the very fabric of each word. Within the mental depths with this moving review, we can embark upon a genuine exploration of the book's core styles, dissect its interesting publishing style, and succumb to the strong resonance it evokes strong within the recesses of readers' hearts.

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