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Concepts, Ontologies, and Knowledge Representation

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Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science

Valentina Tamma



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Concepts, Ontologies, and Knowledge Representation Grega Jakus, Veljko Milutinović, Sanida Omerović, Sašo Tomažič, 2013-06-22 Recording knowledge in a common framework that would make it possible to seamlessly share global knowledge remains an important challenge for researchers This brief examines several ideas about the representation of knowledge addressing this challenge A widespread general agreement is followed that states uniform knowledge representation should be achievable by using ontologies populated with concepts A separate chapter is dedicated to each of the three introduced topics following a uniform outline definition organization and use This brief is intended for those who want to get to know the field of knowledge representation quickly or would like to be up to date with current developments in the field It is also useful for those dealing with implementation as examples of numerous operational systems are also given

Advances in Digital Cultural Heritage Marinos Ioannides, João Martins, Roko Žarnić, Veranika Lim, 2018-02-15 This book constitutes the papers of the International Workshop on Analysis in Digital Cultural Heritage 2017 held in Funchal Madeira Portugal in June 2017 The 16 full and 19 poster papers were carefully reviewed and selected from 93 submissions The main objective of the Workshop was to present recent developments and applications of IT technologies for Cultural Heritage preservation namely Demonstration of the advantages of new generation of equipment for mapping digital survey and documentation of heritage assets and sites Presentation of technologies for digitalization optimal documentation and information sharing on Cultural Heritage Tools and procedures for social interaction enhancing fostering awareness and participation Rising of the knowledge level in domain of IT applications for Cultural Heritage preservation Usage of virtual reality for better understanding and learning on Cultural Heritage

Linguistic Perspectives on the Construction of Meaning and Knowledge Elke Diedrichsen, Brian Nolan, 2019-09-24 This book is an exploration of the dimensions of meaning in language from several important perspectives that are of major interest to scholars today bringing together studies from the realms of linguistic pragmatics semantics ontological knowledge engineering and computational linguistics Situated within modern functional cognitive constructional ontological and computational paradigms the analyses here are supported by authentic language data including corpus data from a rich set of languages Context and situation play an important but complex role in meaning elaboration The role of context and situation is elusive and has proved difficult to elucidate with respect to meaning and knowledge representation This volume provides evidence of the nature of the often rapid emergence of meaning in the digital world of the internet social media and Internet memes The use of computational avatars and the rise of human language technologies including big data and digital corpora have made the construction of meaning and human language understanding essential to the work of linguists cognitive scientists and computer scientists who are increasingly working together in collaborative teams to share insights

Structural Analysis of Historical Constructions Rafael Aguilar, Daniel Torrealva, Susana Moreira, Miguel A. Pando, Luis F. Ramos, 2018-08-18 This volume

contains the proceedings of the 11th International Conference on Structural Analysis of Historical Constructions SAHC that was held in Cusco Peru in 2018 It disseminates recent advances in the areas related to the structural analysis of historical and archaeological constructions The challenges faced in this field show that accuracy and robustness of results rely heavily on an interdisciplinary approach where different areas of expertise from managers practitioners and scientists work together Bearing this in mind SAHC 2018 stimulated discussion on the new knowledge developed in the different disciplines involved in analysis conservation retrofit and management of existing constructions This book is organized according to the following topics assessment and intervention of archaeological heritage history of construction and building technology advances in inspection and NDT innovations in field and laboratory testing applied to historical construction and heritage new technologies and techniques risk and vulnerability assessments of heritage for multiple types of hazards repair strengthening and retrofit of historical structures numerical modeling and structural analysis structural health monitoring durability and sustainability management and conservation strategies for heritage structures and interdisciplinary projects and case studies This volume holds particular interest for all the community interested in the challenging task of preserving existing constructions enable great opportunities and also uncover new challenges in the field of structural analysis of historical and archeological constructions

From Collective Beings to Quasi-Systems Gianfranco Minati, Eliano Pessa, 2018-01-29 This book outlines a possible future theoretical perspective for systemics its conceptual morphology and landscape while the Good Old Fashioned Systemics GOFs era is still under way The change from GOFs to future systemics can be represented as shown in the book title by the conceptual change from Collective Beings to Quasi systems With the current advancements problems and approaches occurring in contemporary science systemics are moving beyond the traditional frameworks used in the past From Collective Beings to Coherent Quasi Systems outlines a conceptual morphology and landscape for a new theoretical perspective for systemics introducing the concept of Quasi systems Advances in domains such as theoretical physics philosophy of science cell biology neuroscience experimental economics network science and many others offer new concepts and technical tools to support the creation of a fully transdisciplinary General Theory of Change This circumstance requires a deep reformulation of systemics without forgetting the achievements of established conventions The book is divided into two parts Part I examines classic systemic issues from new theoretical perspectives and approaches A new general unified framework is introduced to help deal with topics such as dynamic structural coherence and Quasi systems This new theoretical framework is compared and contrasted with the traditional approaches Part II focuses on the process of translation into social culture of the theoretical principles models and approaches introduced in Part I This translation is urgent in post industrial societies where emergent processes and problems are still dealt with by using the classical or non systemic knowledge of the industrial phase

Semantic Web-based Intelligent Geospatial Web Services Peng Yue, 2013-04-18 By introducing Semantic Web technologies into geospatial Web services this book addresses the semantic

description of geospatial data and standards based Web services discovery of geospatial data and services and generation of composite services Semantic descriptions for geospatial data services and geoprocessing service chains are structured organized and registered in geospatial catalogue services The ontology based approach helps to improve the recall and precision of data and services discovery Semantics enabled metadata tracking and satisfaction allows analysts to focus on the generation of a geospatial process model rather than spending large amounts of time in data preparation DataType driven service composition and path planning can help to automate a range of knowledge discovery processes in a limited geospatial domain Process planning facilitates the construction of complex services and models for geocomputation A three phase procedure to cover the lifecycle of service chaining and to identify the roles of the methods involved is proposed It includes process modeling process model instantiation and workflow execution The approach is implemented in a prototype system with use cases to demonstrate applicability The objective of the research is to develop the key technologies for an intelligent geospatial knowledge system based on Web services to automate the data discovery and data preprocessing steps in the distributed Web service environment to automate a range of knowledge discovery processes in a limited geospatial domain using the automated construction and execution of service chains and to facilitate the construction of complex services and models for geocomputation

Ontology-Based Data Access Leveraging Subjective Reports Gerardo I. Simari, Cristian Molinaro, Maria Vanina Martinez, Thomas Lukasiewicz, Livia Predoiu, 2017-09-22 This SpringerBrief reviews the knowledge engineering problem of engineering objectivity in top k query answering essentially answers must be computed taking into account the user s preferences and a collection of subjective reports provided by other users Most assume each report can be seen as a set of scores for a list of features its author s preferences among the features as well as other information is discussed in this brief These pieces of information for every report are then combined along with the querying user s preferences and their trust in each report to rank the query results Everyday examples of this setup are the online reviews that can be found in sites like Amazon Trip Advisor and Yelp among many others Throughout this knowledge engineering effort the authors adopt the Datalog family of ontology languages as the underlying knowledge representation and reasoning formalism and investigate several alternative ways in which rankings can be derived along with algorithms for top k atomic query answering under these rankings This SpringerBrief also investigate assumptions under which our algorithms run in polynomial time in the data complexity Since this SpringerBrief contains a gentle introduction to the main building blocks OBDA Datalog and reasoning with preferences it should be of value to students researchers and practitioners who are interested in the general problem of incorporating user preferences into related formalisms and tools Practitioners also interested in using Ontology based Data Access to leverage information contained in reviews of products and services for a better customer experience will be interested in this brief and researchers working in the areas of Ontological Languages Semantic Web Data Provenance and Reasoning with Preferences

Handbook on Ontologies Steffen Staab, Rudi

Studer, 2010-03-14 An ontology is a formal description of concepts and relationships that can exist for a community of human and/or machine agents. The notion of ontologies is crucial for the purpose of enabling knowledge sharing and reuse. The Handbook on Ontologies provides a comprehensive overview of the current status and future perspectives of the field of ontologies, considering ontology languages, ontology engineering methods, example ontologies, infrastructures, and technologies for ontologies, and how to bring this all into ontology-based infrastructures and applications that are among the best of their kind. The field of ontologies has tremendously developed and grown in the five years since the first edition of the Handbook on Ontologies. Therefore, its revision includes 21 completely new chapters as well as a major reworking of 15 chapters transferred to this second edition.

Ontology Representation Rinke Hoekstra, 2009. Based on author's thesis from the Dutch Research School for Information and Knowledge Systems.

Ontological Engineering Asunción Gómez-Pérez, Mariano Fernández-López, Oscar Corcho, 2006-04-18. Ontological Engineering refers to the set of activities that concern the ontology development process, the ontology life cycle, the methods and methodologies for building ontologies, and the tool suites and languages that support them. During the last decade, increasing attention has been focused on ontologies, and Ontological Engineering. Ontologies are now widely used in Knowledge Engineering, Artificial Intelligence, and Computer Science in applications related to knowledge management, natural language processing, e-commerce, intelligent integration, information retrieval, integration of databases, bioinformatics, and education, and in new emerging fields like the Semantic Web. Primary goals of this book are to acquaint students, researchers, and developers of information systems with the basic concepts and major issues of Ontological Engineering, as well as to make ontologies more understandable to those computer science engineers that integrate ontologies into their information systems. We have paid special attention to the influence that ontologies have on the Semantic Web. Pointers to the Semantic Web appear in all the chapters, but specially in the chapter on ontology languages and tools.

Ontologies Rajiv Kishore, Ram Ramesh, 2007-04-03. This book describes the state of the art in ontology-driven information systems (ODIS) and gives a complete perspective on the problems, solutions, and open research questions in this field. The book covers four broad areas: foundations of ODIS, ontological engineering, ODIS architectures, and ODIS applications. It will trigger innovative thought processes and open up significant new domains in ODIS research.

Ontology Engineering Elisa F. Kendall, Deborah L. McGuinness, 2019-04-26. This book is designed to provide the foundations for ontology engineering. It is motivated by the Ontology 101 tutorial given for many years at the Semantic Technology Conference and then later from a semester-long university class. The book can serve as a course textbook or a primer for all those interested in ontologies. Ontologies have become increasingly important as the use of knowledge graphs, machine learning, natural language processing (NLP), and the amount of data generated on a daily basis has exploded. As of 2014, 90% of the data in the digital universe had been generated in the preceding two years, and the volume of data was projected to grow from 3.2 zettabytes to 40 zettabytes in the following six years. The very real issues that

government research and commercial organizations are facing in order to sift through this amount of information to support decision making alone mandate increasing automation Yet the data profiling NLP and learning algorithms that are ground zero for data integration manipulation and search provide less than satisfactory results unless they utilize terms with unambiguous semantics such as those found in ontologies and well formed rule sets Ontologies can provide a rich schema for the knowledge graphs underlying these technologies as well as the terminological and semantic basis for dramatic improvements in results Many ontology projects fail however due at least in part to a lack of discipline in the development process

Ontological Engineering Approach of Developing Ontology of Information Science Ahlam F. Sawsaa,2015-08

Ontology has been a subject of many studies carried out in artificial intelligence AI and information system communities Ontology has become an important component of the semantic web covering a variety of knowledge domains Although building domain ontologies still remains a big challenge with regard to its designing and implementation there are still many areas that need to create ontologies Information Science IS is one of these areas that need a unified ontology model to facilitate information access among the heterogeneous data resources and share a common understanding of the domain knowledge Recently the development of domain ontologies has become increasingly important for knowledge level interoperation and information integration They provide functional features for AI and knowledge representation Domain Ontology is a central foundation of growth for the semantic web that provides a general knowledge for correspondence and communication among heterogeneous systems Particularly with a rise of ontology in the artificial intelligence AI domain it can be seen as an almost inevitable development in computer science and AI in general

Ontologies in Urban Development Projects Gilles Falquet, Claudine Métral, Jacques Teller, Christopher Tweed,2011-07-29

Ontologies are increasingly recognized as essential tools in information science Although the concepts are well understood theoretically the practical implementation of ontologies remains challenging In this book researchers in computer science information systems ontology engineering urban planning and design civil and building engineering and architecture present an interdisciplinary study of ontology engineering and its application in urban development projects The first part of the book introduces the general notion of ontology describing variations in abstraction level coverage and formality It also discusses the use of ontologies to achieve interoperability and to represent multiple points of view and multilingualism This is illustrated with examples from the urban domain The second part is specific to urban development It covers spatial and geographical knowledge representation the creation of urban ontologies from various knowledge sources the interconnection of urban models and the interaction between standards and domain models The third part presents case studies of the development of ontologies for urban mobility urban morphological processes road systems and cultural heritage Other cases report on the use of ontologies to solve urban development problems in construction business models building regulations and urban regeneration It concludes with a discussion of key challenges for the future deployment of ontologies in this domain This book bridges the

gap between urban practitioners and computer scientists As the essence of most urban projects lies in making connections between worldviews ontology development has an important role to play in promoting interoperability between data sources both formal urban databases Building Integrated Models Geographical Information Systems etc and less formal thesauri text records web sources etc This volume offers a comprehensive introduction to ontology engineering for urban development It is essential reading for practitioners and ontology designers working in urban development Ontologies for Agents: Theory and Experiences Valentina Tamma, 2005-05-19 The volume aims at providing a comprehensive review of the diverse efforts covering the gap existing between the two main perspectives on the topic of ontologies for multi agent systems namely How ontologies should be modelled and represented in order to be effectively used in agent systems and on the other hand what kind of capabilities should be exhibited by an agent in order to make use of ontological knowledge and to perform efficient reasoning with it The volume collects the most significant papers of the AAMAS 2002 and AAMAS 2003 workshop on ontologies for agent systems and the EKAW 2002 workshop on ontologies for multi agent systems Ontologies for Software Engineering and Software Technology Coral Calero, Francisco Ruiz, Mario Piattini, 2006-10-12 Communication is one of the main activities in software projects many such projects fail or encounter serious problems because the stakeholders involved have different understandings of the problem domain and or they use different terminologies Ontologies can help to mitigate these communication problems Calero and her coeditors mainly cover two applications of ontologies in software engineering and software technology sharing knowledge of the problem domain and using a common terminology among all stakeholders and filtering the knowledge when defining models and metamodels The editors structured the contributions into three parts first a detailed introduction into the use of ontologies in software engineering and software technology in general second the use of ontologies to conceptualize different process related domains such as software maintenance software measurement or SWEBOK initiated by IEEE third the use of ontologies as artifacts in several software processes like for example in OMG s MOF or MDA By presenting the advanced use of ontologies in software research and software projects this book is of benefit to software engineering researchers in both academia and industry **Knowledge Representation** John F. Sowa, 2000 Drawing from a wide range of disciplines this book integrates logic philosophy linguistics and computer science into this important new book Written by a leading researcher in knowledge representation this definitive work is designed for researchers in computer science with knowledge of artificial intelligence as a prerequisite Ontologies: Dieter Fensel, 2013-03-09 Ontologies have been developed and investigated for quite a while now in artificial intelligence and natural language processing to facilitate knowledge sharing and reuse More recently the notion of ontologies has attracted attention from fields such as intelligent information integration cooperative information systems information retrieval electronic commerce and knowledge management The author systematically introduces the notion of ontologies to the non expert reader and demonstrates in detail how to apply this conceptual framework for improved intranet retrieval of corporate

information and knowledge and for enhanced Internet based electronic commerce In the second part of the book the author presents a more technical view on emerging Web standards like XML RDF XSL T or XQL allowing for structural and semantic modeling and description of data and information *Modular Ontologies* Heiner Stuckenschmidt,Christine Parent,Stefano Spaccapietra,2009-05-17 This book constitutes a collection of research achievements mature enough to provide a firm and reliable basis on modular ontologies It discusses the recent concepts theories and techniques for knowledge modularization

Knowledge Engineering and Knowledge Management: Ontologies and the Semantic Web V. Richard Benjamins,2003-08-02 th This volume contains the papers presented at the 13 International Conference on Knowledge Engineering and Knowledge Management EKAW 2002 held in Sig enza Spain October 1 4 2002 Papers were invited on topics related to Knowledge Acquisition Knowledge Management Ontologies and the Semantic Web A total of 110 papers were submitted Each submission was evaluated by at least two reviewers The selection process has resulted in the acceptance of 20 long and 14 short papers for publication and presentation at the conference an acceptance rate of about 30% In addition one invited paper by a keynote speaker is included This volume contains 8 papers on Knowledge Acquisition 4 about Knowledge Management 16 on Ontologies and 6 papers about the Semantic Web This was the second time EKAW 2000 being the first that the event was organized as a conference rather than as the usual workshop hence the acronym European Knowledge Acquisition Workshop The large number of submissions 110 versus the usual 40 60 is an indication that the scientific community values EKAW as an important event to share experiences in the Knowledge Technology area worthy of being organized as a prestigious international conference Knowledge is the fuel of the upcoming Knowledge Economy Therefore we believe that conferences such as EKAW that focus on Knowledge Technologies will continue to play a major role as a platform for sharing and exchanging experiences and knowledge between key players in the area

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Table of Contents Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science

1. Understanding the eBook Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science
 - The Rise of Digital Reading Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science
 - Advantages of eBooks Over Traditional Books
2. Identifying Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science
 - User-Friendly Interface
4. Exploring eBook Recommendations from Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science
 - Personalized Recommendations
 - Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science User Reviews and Ratings

- Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science and Bestseller Lists
- 5. Accessing Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science Free and Paid eBooks
 - Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science Public Domain eBooks
 - Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science eBook Subscription Services
 - Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science Budget-Friendly Options
- 6. Navigating Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science eBook Formats
 - ePub, PDF, MOBI, and More
 - Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science Compatibility with Devices
 - Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science
 - Highlighting and Note-Taking Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science
 - Interactive Elements Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science
- 8. Staying Engaged with Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science
- 9. Balancing eBooks and Physical Books Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science

10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science
 - Setting Reading Goals Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science
 - Fact-Checking eBook Content of Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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