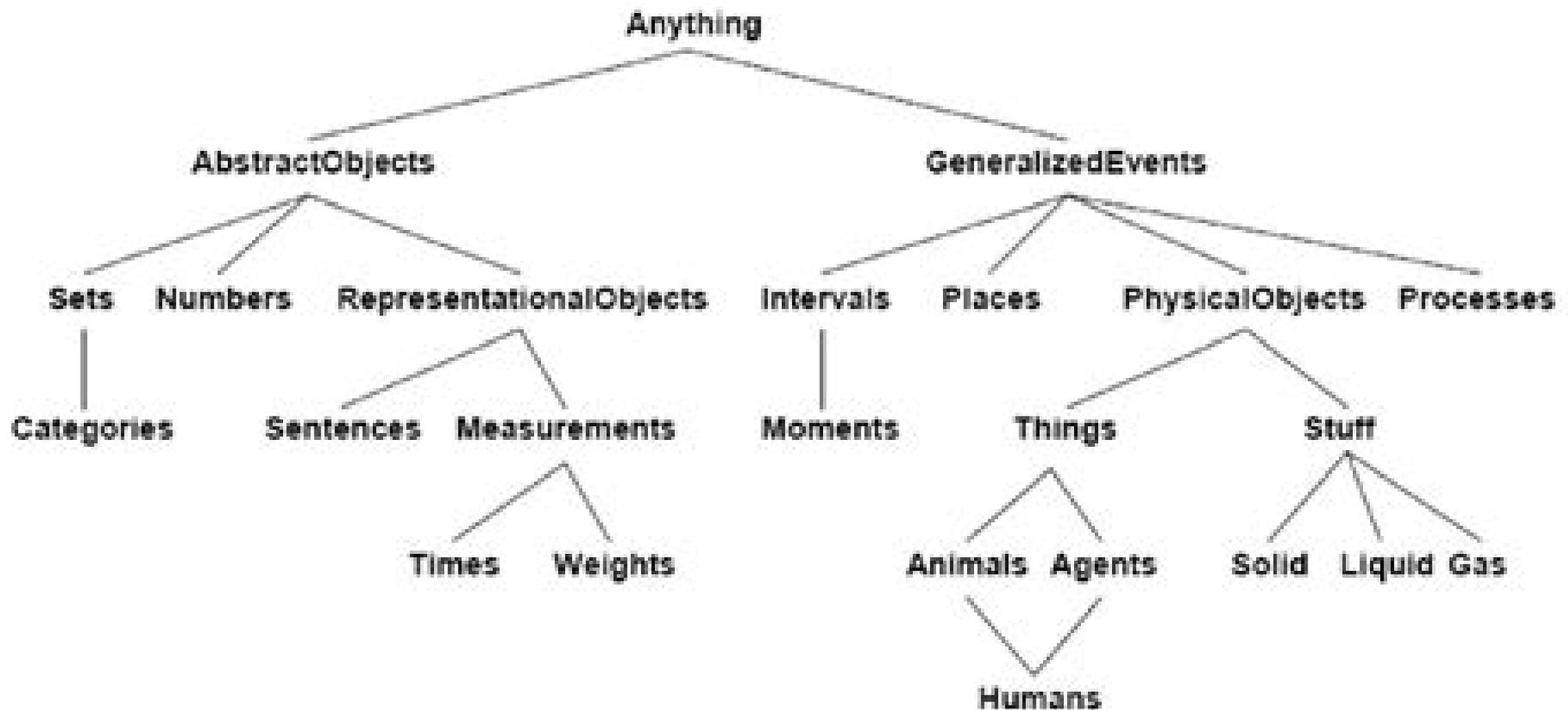


Ontological Engineering

Upper ontology



Ontological Engineering

JA Banks



Ontological Engineering:

Ontological Engineering Asunción Gómez-Pérez, Mariano Fernandez-Lopez, 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 information retrieval integration of databases b informatics 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 **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 Ontology Engineering in a Networked World Mari Carmen Suárez-Figueroa, Asunción Gómez-Pérez, Enrico Motta, Aldo Gangemi, 2012-03-23 The Semantic Web is characterized by the existence of a very large number of distributed semantic resources which together define a network of ontologies These ontologies in turn are interlinked through a variety of different meta relationships such as versioning inclusion and many more This scenario is radically different from the relatively narrow contexts in which ontologies have been traditionally developed and applied and thus calls for new methods and tools to effectively support the development of novel network oriented semantic applications This book by Su rez Figueroa et al provides the necessary methodological and technological support for the development and use of ontology networks which ontology developers need

in this distributed environment After an introduction in its second part the authors describe the NeOn Methodology framework The book s third part details the key activities relevant to the ontology engineering life cycle For each activity a general introduction methodological guidelines and practical examples are provided The fourth part then presents a detailed overview of the NeOn Toolkit and its plug ins Lastly case studies from the pharmaceutical and the fishery domain round out the work The book primarily addresses two main audiences students and their lecturers who need a textbook for advanced undergraduate or graduate courses on ontology engineering and practitioners who need to develop ontologies in particular or Semantic Web based applications in general Its educational value is maximized by its structured approach to explaining guidelines and combining them with case studies and numerous examples The description of the open source NeOn Toolkit provides an additional asset as it allows readers to easily evaluate and apply the ideas presented

Ontological Engineering Asuncion Gsmez-Pirez,Mariano Fernandez-Lspez,Oscar Corcho,2008-05-01 This is a comprehensive survey of ontologies with practical guidance on selection and applications in Knowledge Management and e commerce Ontologies provide a common vocabulary of an area and define with different levels of formality the meaning of the terms and the relationships between them The book presents the major issues of ontological engineering and describes the most outstanding ontologies currently available It covers the practical aspects of selecting and applying methodologies languages and tools for building ontologies Ontological Engineering will be of great value to students and researchers and to developers who want to integrate ontologies in their information systems

A Layered Declarative Approach to Ontology Translation with Knowledge Preservation Oscar Corcho,2005 The ontology translation problem aka ontology interoperability problem appears when we decide to reuse an ontology or part of an ontology with a tool or language that is different from those ones in which the ontology is available If we force each ontology based system developer individually to commit to the task of translating and incorporating to their systems the ontologies that they need they will require a lot of effort and time to achieve their objective This book presents two contributions to the current state of the art on ontology translation among languages and or tools The first contribution is a proposal for a new model for building and maintaining ontology translation systems The second contribution characterises existing ontology translation approaches from the perspectives of semantic and pragmatic preservation that is consequence and intended meaning preservation respectively

Ontology Engineering Elisa F. Kendall,Deborah L. McGuinness,2022-05-31 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 was generated in the two years prior and the volume of data was projected to grow from 3.2 zettabytes to 40 zettabytes in the next 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 This book motivated by the Ontology 101 tutorial given for many years at what was originally the Semantic Technology Conference SemTech and then later from a semester long university class is designed to provide the foundations for ontology engineering The book can serve as a course textbook or a primer for all those interested in ontologies

Formal Ontology in Information Systems

Nicola Guarino,1998 Research on ontology is becoming increasingly widespread in the computer science community While this term has been rather confined to the philosophical sphere in the past it is now gaining a specific role in areas such as Artificial Intelligence Computational Linguistics and Databases Its importance has been recognized in fields as diverse as knowledge engineering knowledge representation qualitative modeling language engineering database design information integration object oriented analysis information retrieval and extraction knowledge management and organization agent based systems design Current applications areas are disparate including enterprise integration natural language translation medicine mechanical engineering electronic commerce geographic information systems legal information systems and biological information systems Various workshops addressing the engineering aspects of ontology have been held in the recent years However ontology by its very nature ought to be a unifying discipline Insights in this field have potential impact on the whole area of information systems taking this term in its broadest sense as testified by the interest recently shown by international standards organizations In order to provide a solid general foundation for this work it is therefore important to focus on the common scientific principles and open problems arising from current tools methodologies and applications of ontology

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 re working of 15 chapters transferred to this second edition

Advances in Pattern-Based

Ontology Engineering Eva Blomqvist,Torsten Hahmann,Karl Hammar,Rinke Hoekstra,Raghava Mutharaju,María Poveda-Villalón,2021-06-15 Ontologies are the corner stone of data modeling and knowledge representation and engineering an ontology is a complex task in which domain knowledge ontological accuracy and computational properties need to be

carefully balanced As with any engineering task the identification and documentation of common patterns is important and Ontology Design Patterns ODPs provide ontology designers with a strong connection to requirements and a better communication of their semantic content and intent This book Advances in Pattern Based Ontology Engineering contains 23 extended versions of selected papers presented at the annual Workshop on Ontology Design and Patterns WOP between 2017 and 2020 This yearly event which attracts a large number of researchers and professionals in the field of ontology engineering and ontology design patterns covers issues related to quality aspects of ontology engineering and ODPs for data and knowledge representation and is usually co located with the International Semantic Web Conference ISWC apart from WOP 2020 which was held virtually due to the COVID 19 pandemic Topics covered by the papers collected here focus on recent advances in ontology design and patterns and range from a method to instantiate content patterns through a proposal on how to document a content pattern to a number of patterns emerging in ontology modeling in various situations and applications The book provides an overview of important advances in ontology engineering and ontology design patterns and will be of interest to all those working in the field

Formal Ontology in Information Systems Achille C. Varzi, Laure Vieu, 2004 Just as ontology developed over the centuries as part of philosophy so in recent years ontology has become intertwined with the development of the information sciences Researchers in such areas as artificial intelligence formal and computational linguistics biomedical informatics conceptual modeling knowledge engineering and information retrieval have come to realize that a solid foundation for their research calls for serious work in ontology understood as a general theory of the types of entities and relations that make up their respective domains of inquiry In all these areas attention has started to focus on the content of information rather than on just the formats and languages in terms of which information is represented A clear example of this development is provided by the many initiatives growing up around the project of the Semantic Web And as the need for integrating research in these different fields arises so does the realization that strong principles for building well founded ontologies might provide significant advantages over ad hoc case based solutions The tools of Formal Ontology address precisely these needs but a real effort is required in order to apply such philosophical tools to the domain of Information Systems

Reciprocally research in the information science raises specific ontological questions which call for further philosophical investigations

Memoirs of the Institute of Scientific and Industrial Research, Osaka University Ōsaka Daigaku. Sangyō Kagaku Kenkyūjo, 2009

Ontologies for Urban Development Jacques Teller, 2007-06-05 Action C21 of the European programme for Cooperation in the field of Scientific and Technical Research COST <http://www.cost-esf.org> is dedicated to investigating urban ontologies for an improved communication in urban civil engineering projects The Action known informally as Towntology brings together a large and heterogeneous grouping from across Europe whose interests range from construction to urban tourism and from transport infrastructure to resource visualisation On 6-7 November 2006 in Geneva the Action convened a successful workshop to address emerging issues in the

field This volume presents the contributions to that workshop in many cases revised afterwards to capture some of the outcomes of discussion Many of these contributions are from members of the Towntology group but there are also contributions from other European researchers and from researchers in the US The volume represents a valuable overview of major current issues in the field of urban ontologies and encapsulates many useful and different approaches We hope that it will serve not only as a worthy outcome of Action C21 but also as a valuable resource for a wide range of researchers

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 **MICAI ...** ,2005 *Proceedings of CSTeN'05* ,2005 **On the Move to Meaningful Internet Systems ...: OTM ... Workshops** ,2003 Global Business

Mehdi Khosrowpour,Information Resources Management Association,2011-01-01 This multi volume reference examines critical issues and emerging trends in global business with topics ranging from managing new information technology in global business operations to ethics and communication strategies Provided by publisher Information Modeling in the New Millennium Matti Rossi,Keng Siau,2001 This book reviews the state of the art and state of the practice of modeling methods and methodologies in information systems development The book has sections on foundations of information modeling extended object oriented modeling and Web information systems modeling Information Modeling in the New Millennium addresses the gap between technical and business oriented modeling approaches by providing an integrative view of modeling different of facets of ICT and organizations Proceedings of the National Science Council, Republic of China ,2000 *The War and Peace of a New Metaphysical Perception, Volume III* Daniel J. Shepard,2005-01-01 A futuristic examination of metaphysical systems responsibility understanding conceit continuums and history s vector

Ontological Engineering Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Ontological Engineering**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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