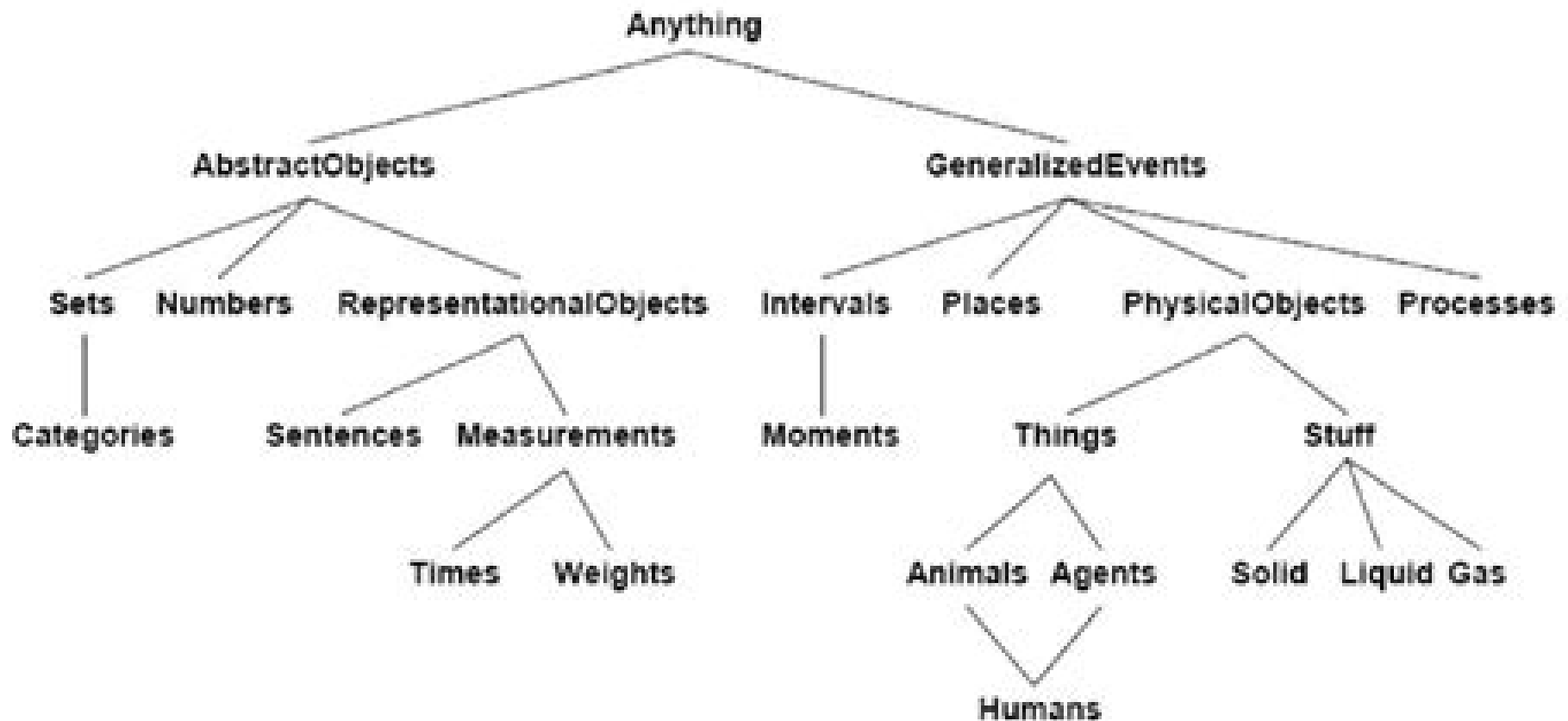


# Ontological Engineering

## *Upper ontology*



# Ontological Engineering

**Nicola Guarino**



## **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 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 **Ontology Engineering in a Networked World** Mari Carmen

Suárez-Figueroa, Asunción Gómez-Pérez, Enrico Motta, Aldo Gangemi, 2012-03-26 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 Suárez-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.

### **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      *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, 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      **Ontology Representation** Rinke

Hoekstra,2009 Based on author s thesis from the Dutch Research School for Information and Knowledge 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     **OntoCAPE** Wolfgang Marquardt,Jan Morbach,Andreas Wiesner,Aidong Yang,2009-12-16 Motivation for this Book Ontologies have received increasing attention over the last two decades Their roots can be traced back to the ancient philosophers who were interested in a conceptualization of the world In the more recent past ontologies and ontological engineering have evolved in computer science building on various roots such as logics knowledge representation information modeling and management and knowledge based information systems Most recently largely driven by the next generation internet the so called Semantic Web ontological software engineering has developed into a scientific field of its own which puts particular emphasis on the theoretical foundations of representation and reasoning and on the methods and tools required for building ontology based software applications in diverse domains Though this field is largely dominated by computer science close relationships have been established with its diverse areas of application where researchers are interested in exploiting the results of ontological software engineering particularly to build large knowledge intensive applications at high productivity and low maintenance effort Consequently a large number of scientific papers and monographs have been published in the very recent past dealing with the theory and practice of ontological software engineering So far the majority of those books are dedicated to the theoretical foundations of ontologies including philosophical treatises and their relationships to established methods in information systems and ontological software engineering     **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      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      *Ontology Engineering with Ontology Design Patterns: Foundations and Applications* Aldo Gangemi, Krzysztof Janowicz, Adila Krisnadhi, Valentina Presutti, 2016-09-15 The use of ontologies for data and knowledge organization has become ubiquitous in many data intensive and knowledge driven application areas in science industry and the humanities At the same time ontology engineering best practices continue to evolve In particular modular ontology modeling based on ontology design patterns is establishing itself as an approach for creating versatile and extendable ontologies for data management and integration This book is the very first comprehensive treatment of Ontology Engineering with Ontology Design Patterns It contains both advanced and introductory material accessible for readers with only a minimal background in ontology modeling Some introductory material is written in the style of tutorials and specific chapters are devoted to examples and to applications Other chapters convey the state of the art in research regarding ontology design patterns The editors and the contributing authors include the leading contributors to the development of ontology design pattern driven ontology engineering      **An Introduction to Ontology Engineering** \ Maria Keet, 2018      *An Introduction to Ontology Engineering* C. Maria Keet, 2018-11-07 An Introduction to Ontology Engineering introduces the student to a comprehensive overview of ontology engineering and offers hands on experience that illustrate the theory The topics covered include logic foundations for ontologies with languages and automated reasoning developing good ontologies with methods and methodologies the top down approach with foundational ontologies and the bottomup approach to extract content from legacy material and a selection of advanced topics that includes Ontology Based Data Access the interaction between ontologies and natural languages and advanced modelling with fuzzy and temporal ontologies Each chapter contains review questions and exercises and descriptions of two group assignments are provided as well The textbook is aimed at advanced undergraduate postgraduate level in computer science

and could fit a semester course in ontology engineering or a 2 week intensive course Domain experts and philosophers may find a subset of the chapters of interest or work through the chapters in a different order Maria Keet is an Associate Professor with the Department of Computer Science University of Cape Town South Africa She received her PhD in Computer Science in 2008 at the KRDB Research Centre Free University of Bozen Bolzano Italy Her research focus is on knowledge engineering with ontologies and Ontology and their interaction with natural language and conceptual data modelling which has resulted in over 100 peer reviewed publications She has developed and taught multiple courses on ontology engineering and related courses at various universities since 2009 *Ontology Learning for the Semantic Web* Alexander Maedche,2012-12-06 Ontology Learning for the Semantic Web explores techniques for applying knowledge discovery techniques to different web data sources such as HTML documents dictionaries etc in order to support the task of engineering and maintaining ontologies The approach of ontology learning proposed in Ontology Learning for the Semantic Web includes a number of complementary disciplines that feed in different types of unstructured and semi structured data This data is necessary in order to support a semi automatic ontology engineering process Ontology Learning for the Semantic Web is designed for researchers and developers of semantic web applications It also serves as an excellent supplemental reference to advanced level courses in ontologies and the semantic web Ontological Engineering and Mapping in Multiagent Systems Development Jonathan M. DiLeo,2002-03-01 Multiagent systems have received much attention in recent years due to their advantages in complex distributed environments Previous work at the Air Force Institute of Technology has developed a methodology for analyzing designing and developing multiagent systems called Multiagent Systems Engineering MaSE MaSE currently does not address the information domain of the system which is an integral part of designing proper system execution This research extends the MaSE methodology to include the use of ontologies for information domain specification The extensions allow the designer to specify information flow by using objects from the ontology as parameters in agent conversations The developer can then ensure system functionality by verifying that each agent has the information required to accomplish the system goals To fully describe the system design the developer must describe the relationships between the system ontology and any agent component ontologies This research also developed a ranking model to assist the user with creating such mappings to show the relationships between the objects in the ontologies

**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

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

## Decoding **Ontological Engineering**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Ontological Engineering**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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