Frontiers in Artificial Intelligence and Applications

FORMAL ONTOLOGY IN INFORMATION SYSTEMS

Edited by N. Guarino



Formal Ontology In Information Systems Frontiers In Artificial Intelligence And Applications

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Formal Ontology In Information Systems Frontiers In Artificial Intelligence And Applications:

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 Advanced Information Systems Engineering Benkt Wangler, Lars Bergman, 2003-06-29 CAiSE 2000 was the 12th in the series of International Conferences on Advanced Information Systems Engineering In the year 2000 the conference returned to Stockholm where it was organized the very first time Since that year 1989 the CAiSE conferences have developed into an important forum for the presentation and exchange of research results and practical experiences within the field of Information Systems Engineering The objective of the CAiSE conference series is to bring together researchers and practitioners in the field of information systems engineering to meet annually in order to discuss evolving research issues and applications in this field The CAiSE conference series also aims to provide an opportunity for young scientists to establish relationships with senior scientists in their areas of interest Stockholm is an important center of research and development for some of the leading IT and communications companies in Europe and indeed in the world In tune with this environment a major theme of CAiSE 2000 was information systems and services in a digitized world This theme reflects the vast improvements in communication technology including the increasing use of Internet and WWW that has taken place over the last years and that has led to better communication and easier information access in general In addition this development has initiated changes in the way organizations cooperate and trade

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

Formal Ontology in Information Systems Antony Galton, Riichiro Mizoguchi, 2010 Ontology began life in ancient times as a fundamental part of philosophical enquiry concerned with the analysis and categorisation of what exists In recent years the subject has taken a practical turn with the advent of complex computerised information systems which are reliant on robust and coherent representations of their subject matter The systematisation and elaboration of such representations and their associated reasoning techniques constitute the modern discipline of formal ontology which is now being applied to such diverse domains as artificial intelligence computational linguistics bioinformatics GIS knowledge engineering information retrieval and the Semantic Web Researchers in all these areas are becoming increasingly aware of the need for serious engagement with ontology understood as a general theory of the types of entities and relations making up their respective domains of enquiry to provide a solid foundation for their work The conference series Formal Ontology in Information Systems FOIS provides a meeting point for researchers from these and other disciplines with an interest in formal ontology where both theoretical issues and concrete applications can be explored in a spirit of genuine interdisciplinarity This volume contains the proceedings of the sixth FOIS conference held in Toronto Canada during 11 14 May 2010 including invited talks by Francis Jeffry Pelletier John Bateman and Alan Rector and the 28 peer reviewed submissions selected for presentation at the conference ranging from foundational issues to more application oriented topics IOS Press is an international science technical and medical publisher of high quality books for academics scientists and professionals in all fields Some of the areas we publish in Biomedicine Oncology Artificial intelligence Databases and information systems Maritime engineering Nanotechnology Geoengineering All aspects of physics E governance E commerce The knowledge economy Urban studies Arms control Understanding and responding to terrorism Medical informatics Computer Sciences Formal Ontology in **Information Systems** R. Ferrario, W. Kuhn, 2016-07-06 Ontology originally a fundamental part of philosophical enquiry is concerned with the analysis and categorization of what exists The advent of complex information systems which rely on robust and coherent formal representations of their subject matter has led to a renewed focus on ontological enquiry and the systematic study of such representations are at the center of the modern discipline of formal ontology This is now a research

focus in domains as diverse as conceptual modeling database design software engineering artificial intelligence computational linguistics the life sciences bioinformatics geographic information science knowledge engineering information retrieval and the semantic web This book presents the proceedings of the 9th edition of the Formal Ontology in Information Systems conference FOIS 2016 held in Annecy France in July 2016 It contains the 25 full papers delivered at the conference an acceptance rate of 30 9% for the main track as well as the abstracts of the 3 keynotes by Gilberto C mara Stephen Mumford and Friederike Moltmann The remainder of the book is divided into the sections Foundations Space Time and Change Cognition Language and Semantics Empiricism and Measurement Ontology for Engineering Biomedical Ontologies and Ontology of Social Reality The domains addressed by the papers include geography biomedicine economics social reality and engineering and the book will be of interest to all those working in these fields as well as to anybody with an interest in Compendium of Neurosymbolic Artificial Intelligence Md Kamruzzaman Sarker, Aaron Eberhart, 2023-08-15 If only it were possible to develop automated and trainable neural systems that could justify their behavior in a way that could be interpreted by humans like a symbolic system The field of Neurosymbolic AI aims to combine two disparate approaches to AI symbolic reasoning and neural or connectionist approaches such as Deep Learning The quest to unite these two types of AI has led to the development of many innovative techniques which extend the boundaries of both disciplines This book Compendium of Neurosymbolic Artificial Intelligence presents 30 invited papers which explore various approaches to defining and developing a successful system to combine these two methods Each strategy has clear advantages and disadvantages with the aim of most being to find some useful middle ground between the rigid transparency of symbolic systems and the more flexible yet highly opaque neural applications. The papers are organized by theme with the first four being overviews or surveys of the field These are followed by papers covering neurosymbolic reasoning neurosymbolic architectures various aspects of Deep Learning and finally two chapters on natural language processing All papers were reviewed internally before publication The book is intended to follow and extend the work of the previous book Neuro symbolic artificial intelligence The state of the art IOS Press 2021 which laid out the breadth of the field at that time Neurosymbolic AI is a young field which is still being actively defined and explored and this book will be of interest to those working in AI research and development Formal Ontology in Information Systems P. Garbacz, O. Kutz, 2014-09-05 Formal Ontology in Information Systems FOIS is the flagship conference of the International Association for Ontology and its Applications IAOA Its interdisciplinary research focus lies at the intersection of philosophical ontology linguistics logic cognitive science and computer science as well as in the applications of ontological analysis to conceptual modeling knowledge engineering knowledge management information systems development library and information science scientific research and semantic technologies in general As in previous years FOIS 2014 was a nexus of interdisciplinary research and communication The current proceedings is divided into four main sections dealing with foundations processes agency and

dispositions methods and tools and applications The last of these covers a broad spectrum of areas including in particular biology and medicine engineering and economy For the first time in its history the conference hosted a special track an ontology competition the aim of which was to encourage authors to make their ontologies publicly available and to allow them to be evaluated according to a set of predetermined criteria Papers discussing these ontologies can also be found in this volume The book will be of interest to all those whose work involves the application of ontologies and who are looking for a Formal Ontology in Information Systems Brandon current overview of developments in formal ontology Bennett, Christiane Fellbaum, 2006 Aims to provide a forum for genuine interdisciplinary exchange in the spirit of a unified effort towards solving the problems of ontology with an eye to both theoretical issues and concrete applications This book contains a range of areas all of which are important to the development of formal ontologies Formal Ontology in **Information Systems** Boyan Brodaric, Fabian Neuhaus, 2020-11-15 FOIS is the flagship conference of the International Association for Ontology and its Applications a non profit organization which promotes interdisciplinary research and international collaboration at the intersection of philosophical ontology linguistics logic cognitive science and computer science as well as in the applications of ontological analysis to conceptual modeling knowledge engineering knowledge management information systems development library and information science scientific research and semantic technologies in general This volume presents the 17 papers accepted for the 11th Formal Ontology in Information Systems conference FOIS 2020 These papers cover a broad range of topics and are organized into 5 groups Foundations is dedicated to the general ontological decisions providing a foundation for any ontology both from a philosophical perspective and with an emphasis on applications Social Entities is dedicated to the ontological analysis and formalization of various social entities including secrets legal theories decisions kinship and cultural heritage The papers in Intentionality and Embodiment analyze aspects of an agent s intentions beliefs and desires as well as the embodiment of functional relations The section on Parts and Wholes is dedicated to mereology as well as the mereological analysis of certain types of entities e g pluralities information entities and computer programs Lastly the papers in Methods are about ontology evaluation and use Altogether the papers reflect traditional FOIS themes with perhaps a greater emphasis on social and agent aspects and will be of interest to all those whose work involves ontology and its applications Formal Ontology in Information Systems Nathalie Aussenac-Gilles, Torsten Hahmann, Antony Galton, 2024-01-15 FOIS is the flagship conference of the International Association for Ontology and its Applications a non profit organization which promotes interdisciplinary research and international collaboration at the intersection of philosophical ontology linguistics logic cognitive science and computer science This book presents the papers delivered at FOIS 2023 the 13th edition of the Formal Ontology in Information Systems conference The event was held as a sequentially hybrid event face to face in Sherbrooke Canada from 17 to 20 July 2023 and online from 18 to 20 September 2023 In total 62 articles from 19 different countries were submitted out of which

25 were accepted for inclusion in the conference and for publication corresponding to an acceptance rate of 40 percent The contributions are separated into the book s three sections 1 Foundational ontological issues 2 Methodological issues around the development alignment verification and use of ontologies and 3 Domain ontologies and ontology based applications In these sections ontological aspects from a wide variety of fields are covered primarily from various engineering domains including cybersecurity manufacturing petroleum engineering and robotics but also extending to the humanities social sciences medicine and dentistry A noticeable trend among the contributions in this edition of the conference is the recognition that improving the tools to analyze align and improve ontologies is of paramount importance in continuing to advance the field of formal ontology. The book will be of interest to all formal and applied ontology researchers and to those who use formal ontologies and information systems as part of their work Formal Ontology in Information Systems Stefano Borgo, 2018-09-15 FOIS is the flagship conference of the International Association for Ontology and its Applications IAOA Its interdisciplinary research focus lies at the intersection of philosophical ontology linguistics logic cognitive science and computer science as well as in the applications of ontological analysis to conceptual modeling knowledge engineering knowledge management information systems development library and information science scientific research and semantic technologies in general This volume presents the proceedings of FOIS 2018 held in Cape Town South Africa from 19 21 September It was the 10th edition and 20th anniversary of the conference series The volume contains 19 papers grouped into 4 sections Foundations 7 papers Agents and Properties 4 papers Methods and Tools 4 papers and Applications 4 papers Regarding the applications of ontologies a broad spectrum of areas is covered including in particular biology and medicine IoT engineering and linguistics Formal Ontology in Information Systems Proceedings of the 10th International Conference FOIS 2018 will be of interest to researchers from all disciplines with an interest in formal ontology Handbook of Software Engineering & Knowledge Engineering: Fundamentals Shi Kuo Chang, 2001 This is the first handbook to cover comprehensively both software engineering and knowledge engineering two important fields that have become interwoven in recent years Over 60 international experts have contributed to the book Each chapter has been written in such a way that a practitioner of software engineering and knowledge engineering can easily understand and obtain useful information Each chapter covers one topic and can be read independently of other chapters providing both a general survey of the topic and an in depth exposition of the state of the art Practitioners will find this handbook useful when looking for solutions to practical problems Researchers can use it for quick access to the background current trends and most important references regarding a certain topic The handbook consists of two volumes Volume One covers the basic principles and applications of software engineering and knowledge engineering Volume Two will cover the basic principles and applications of visual and multimedia software engineering knowledge engineering data mining for software knowledge and emerging topics in software engineering and knowledge engineering Handbook Of Software Engineering And Knowledge Engineering, Vol 1:

Fundamentals Shi-kuo Chang,2001-12-27 This is the first handbook to cover comprehensively both software engineering and knowledge engineering two important fields that have become interwoven in recent years Over 60 international experts have contributed to the book Each chapter has been written in such a way that a practitioner of software engineering and knowledge engineering can easily understand and obtain useful information Each chapter covers one topic and can be read independently of other chapters providing both a general survey of the topic and an in depth exposition of the state of the art Practitioners will find this handbook useful when looking for solutions to practical problems Researchers can use it for quick access to the background current trends and most important references regarding a certain topic The handbook consists of two volumes Volume One covers the basic principles and applications of software engineering and knowledge engineering Volume Two will cover the basic principles and applications of visual and multimedia software engineering knowledge engineering data mining for software knowledge and emerging topics in software engineering and knowledge engineering

Enabling Context-Aware Web Services Quan Z. Sheng, Jian Yu, Schahram Dustdar, 2010-05-06 With recent advances in radio frequency identification RFID technology sensor networks and enhanced Web services the original World Wide Web is continuing its evolution into what is being called the Web of Things and Services Such a Web will support an ultimately interactive environment where everyday physical objects such as buildings sidew **Formal Ontology in Information Systems** Carola Eschenbach, Michael Gruninger, 2008 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 Formal Ontology in Information Systems Maureen Donnelly, Giancarlo Guizzardi, 2012 The complex information systems which have evolved in recent decades rely on robust and coherent representations in order to function Such representations and associated reasoning techniques constitute the modern discipline of formal ontology which is now applied to fields such as artificial intelligence computational linguistics

bioinformatics GIS conceptual modeling knowledge engineering information retrieval and the semantic web Ontologies are increasingly employed in a number of complex real world application domains For instance in biology and medicine more and more principle based ontologies are being developed for the description of biological and biomedical phenomena To be effective such ontologies must work well together and as they become more widely used achieving coordinated development presents a significant challenge This book presents collected articles from the 7th International Conference on Formal Ontologies FOIS held in Graz Austria in July 2012 FOIS is a forum which brings together representatives of all major communities involved in the development and application of ontologies to explore both theoretical issues and concrete applications in the field The book is organized in eight sections each of which deals with the ontological aspects of bioinformatics physical entities artifacts and human resources ontology evaluation language and social relations time and events representation and the methodological aspects of ontological engineering Providing a current overview of developments in formal ontology this book will be of interest to all those whose work involves the application of ontologies and to anybody wishing to keep abreast of advances in the field Forthcoming Books Rose Arny, 1999-04 Ontology in Information Systems Fabian Neuhaus, Boyan Brodaric, 2022-01-15 Formal Ontology in Information Systems FOIS is the flagship conference of the International Association for Ontology and its Applications a non profit organization promoting interdisciplinary research and international collaboration at the intersection of philosophical ontology linguistics logic cognitive science and computer science This book presents the 11 papers accepted for the 12th edition of FOIS The conference was held from 13 17 September 2021 in Bozen Bolzano Italy as a hybrid event with some participants attending on site in Bolzano and others attending virtually online The papers are divided into 3 sections and cover a wide range of topics 1 Foundations addressing fundamental issues 2 Applications and Methods presenting novel uses systems tools and approaches and 3 Domain Ontology describing well formed ontologies in particular subject areas

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Formal Ontology In Information Systems Frontiers In Artificial Intelligence And Applications Introduction

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