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# Ontologies for Software Engineering and Software Technology

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**Jerzy Rozenblit, Tony Ewing, Stephan Schulz**



## **Ontologies For Software Engineering And Software Technology:**

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 SWEBOOK 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-Driven Software Development** Jeff Z. Pan, Steffen Staab, Uwe Aßmann, Jürgen Ebert, Yuting Zhao, 2012-12-22 This book is about a significant step forward in software development It brings state of the art ontology reasoning into mainstream software development and its languages Ontology Driven Software Development is the essential comprehensive resource on enabling technologies consistency checking and process guidance for ontology driven software development ODSD It demonstrates how to apply ontology reasoning in the lifecycle of software development using current and emerging standards and technologies You will learn new methodologies and infrastructures additionally illustrated using detailed industrial case studies The book will help you Learn how ontology reasoning allows validations of structure models and key tasks in behavior models Understand how to develop ODSD guidance engines for important software development activities such as requirement engineering domain modeling and process refinement Become familiar with semantic standards such as the Web Ontology Language OWL and the SPARQL query language Make use of ontology reasoning querying and justification techniques to integrate software models and to offer guidance and traceability supports This book is helpful for undergraduate students and professionals who are interested in studying how ontologies and related semantic reasoning can be applied to the software development process In addition it will also be useful for postgraduate students professionals and researchers who are going to embark on their research in areas related to ontology or software engineering

*On the Mathematics of Modelling, Metamodelling, Ontologies and Modelling Languages* Brian Henderson-Sellers, 2012-06-13 Computing as a discipline is maturing rapidly However with maturity often comes a plethora of subdisciplines which as time progresses can become isolationist The subdisciplines of modelling metamodelling ontologies and modelling languages within software engineering e.g. have to some degree evolved separately and without any

underpinning formalisms Introducing set theory as a consistent underlying formalism Brian Henderson Sellers shows how a coherent framework can be developed that clearly links these four previously separate areas of software engineering In particular he shows how the incorporation of a foundational ontology can be beneficial in resolving a number of controversial issues in conceptual modelling especially with regard to the perceived differences between linguistic metamodelling and ontological metamodelling An explicit consideration of domain specific modelling languages is also included in his mathematical analysis of models metamodels ontologies and modelling languages This encompassing and detailed presentation of the state of the art in modelling approaches mainly aims at researchers in academia and industry They will find the principled discussion of the various subdisciplines extremely useful and they may exploit the unifying approach as a starting point for future research

**The Evolution of Conceptual Modeling** Roland Kaschek, Lois M.L.

Delcambre, 2011-02-04 Conceptual modeling represents a recent approach to creating knowledge It has emerged in response to the computer revolution which started in the middle of the 20th century Computers in the meantime have become a major knowledge media Conceptual modeling provides an answer to the difficulties experienced throughout the development of computer applications and aims at creating effective reasonably priced and sharable knowledge about using computers in business Moreover it has become evident that conceptual modeling has the potential to exceed the boundaries of business and computer usage This state of the art survey originates from the International Seminar on the Evolution of Conceptual Modeling held in Dagstuhl Castle Germany in April 2008 The major objective of this seminar was to look into conceptual modeling from a historical perspective with a view towards the future of conceptual modeling and to achieve a better understanding of conceptual modeling issues in several different domains of discourse going beyond individual modeling projects The book contains 14 chapters These were carefully selected during two rounds of reviewing and improvement from 26 presentations at the seminar and are preceded by a detailed preface providing general insights into the field of conceptual modeling that are not necessarily discussed in any of the chapters but nevertheless aid in conceptualizing the inner structure and coherence of the field The chapters are grouped into the following three thematic sections the evolution of conceptual modeling techniques the extension of conceptual modeling to a service oriented peer to peer or Web context and new directions for conceptual modeling

*Virtual and Networked Organizations, Emergent Technologies and Tools* Goran D.

Putnik, Maria Manuela Cruz-Cunha, 2012-07-25 This book constitutes the thoroughly refereed post conference proceedings of the First International Conference on Virtual and Networked Organizations Emergent Technologies and Tools ViNOrg 2011 held in Ofir Portugal in July 2011 The 35 revised full papers presented were carefully reviewed and selected from over 60 initial submissions The papers cover a wide range of topics such as ubiquitous computing and organizations cloud computing and architectures grid computing human computer interfaces serious games data mining Web services cognitive systems social networks and other emergent IT IS approaches in various function domains such as decision support systems planning

design control negotiation marketing management and many other in the context of virtual and networked enterprises and organizations      **The Semantic Web: Research and Applications** Enrico Franconi, Michael Kifer, Wolfgang

May, 2007-06-23 This book constitutes the refereed proceedings of the 4th European Semantic Web Conference ESWC 2007 held in Innsbruck Austria in June 2007 Coverage includes semantic Web services ontology learning inference and mapping social semantic Web ontologies personalization foundations of the semantic Web natural languages and ontologies and querying and Web data models      **Intelligent Computing in Engineering and Architecture** Ian F.C. Smith, 2006-11-23

This book constitutes the thoroughly refereed proceedings of the 13th Workshop of the European Group for Intelligent Computing in Engineering and Architecture EG ICE 2006 held in Ascona Switzerland in June 2006 The 59 revised full papers were carefully reviewed and selected from numerous submissions for inclusion in the book All issues of advanced informatics are covered including a range of techniques      Ontology-based Application Integration Heiko Paulheim, 2011-09-08 Ontology based Application Integration introduces UI level User Interface Level application integration and discusses current problems which can be remedied by using ontologies It shows a novel approach for applying ontologies in system integration While ontologies have been used for integration of IT systems on the database and on the business logic layer integration on the user interface layer is a novel field of research This book also discusses how end users not only developers can benefit from semantic technologies Ontology based Application Integration presents the development of a software framework including a detailed ontology about user interfaces and interactions This includes a running case study of a real world integrated emergency management system The last section of this book discusses useful features that can be built on top of the framework for improving the user experience with future integrated information systems Ontology based Application Integration is designed as a reference book for practitioners and researchers who understand and work with the principles of applying semantic web technologies to a software engineering problem This book will also make an excellent reference or secondary text book for advanced level students concentrating on computer science      **Model Driven Engineering and**

**Ontology Development** Dragan Gašević, Dragan Djurić, Vladan Devedžić, 2009-05-18 Defining a formal domain ontology is considered a useful not to say necessary step in almost every software project This is because software deals with ideas rather than with self evident physical artefacts However this development step is hardly ever done as ontologies rely on well defined and semantically powerful AI concepts such as description logics or rule based systems and most software engineers are unfamiliar with these This book fills this gap by covering the subject of MDA application for ontology development on the Semantic Web The writing is technical yet clear and is illustrated with examples The book is supported by a website

**Proceedings, International Conference on Computer and Information Technology, 25-26 January, 2001**, 2001

**Ontology, Conceptualization and Epistemology for Information Systems, Software Engineering and Service Science** Miguel-Angel Sicilia, Christian Kop, Fabio Sartori, 2010-10-22 This book constitutes the post proceedings of the

International Workshop on Ontology Conceptualization and Epistemology for Information Systems Software Engineering and Service Sciences ONTOSE 2010 held at the CAiSE 2010 conference in Hammamet Tunisia June 2010 The 10 papers presented in this volume were carefully revised and selected from 25 submissions They are grouped in sections on enterprise and service architectures ontology applications ontology visualization and query expansion and ontologies for services

**The 14th IEEE International Conference on Automated Software Engineering** IEEE Computer Society, 1999

Twenty five papers presented at the October 1999 conference are grouped into sessions having the broad topics of software synthesis requirements elicitation reuse test synthesis analysis verification transformation architecture and automated testing Among the topics are data mining library reuse patterns in user selected applications industrial applications of software synthesis via category theory automated translation of UML models of architectures for verification and simulation using SPIN verification of picture generated code evolving object oriented designs with refactorings automatically detecting mismatches during component based and model based development and an overview of Lutess a specification based tool for testing synchronous software There are also 25 short papers that represent novel work not yet fully mature No subject index Annotation copyrighted by Book News Inc Portland OR

**Case-based Reasoning Research and Development**, 1999

*Semantic Web: Concepts, Technologies and Applications* Karin Breitman, Marco Antonio Casanova, Walt

Truszkowski, 2007-03-12 Although the Web is growing at an astounding pace surpassing the 8 billion page mark most pages are still designed for human consumption and cannot be processed by machines Computers are used to display the information but human intervention is still required to interpret the results The Semantic Web unleashes a revolution of new possibilities in which content is given formal machine processable semantics This book provides a well paced introduction to the Semantic Web It covers a wide range of topics from new trends ontologies rules to existing technologies Web Services and software agents to more formal aspects logic and inference It includes real world and complete examples of the application of Semantic Web concepts how the technology presented and discussed throughout the book can be extended to other application areas i e Geographic Information Sciences Bioinformatics and Fine Arts

**Engineering of**

**Computer-Based Systems, 1997 Conference** Jerzy Rozenblit, Tony Ewing, Stephan Schulz, 1997 Proceedings of the March 1997 conference with sections on requirement analysis and specifications parallel and distributed systems model based ECBS software and systems visualization and computer modeling to improve understanding of military systems object oriented design and development real time and mechatronic systems architectures design methodology real time applications model based engineering and dependability and safety critical systems No index Annotation copyrighted by Book News Inc Portland OR

On the Move to Meaningful Internet Systems ...: CoopIS, DOA, and ODBASE, 2004

**Nigeria Journal of Arts,**

**Science, and Technology, Bida**, 2004

*27th Annual International Computer Software and Applications Conference*

, 2003 In the COMPSAC tradition the proceedings spans a broad and diverse range of both technical and non technical topics

from basic methodology and software process design to such practical concerns as liability risk and insurance issues  
*Object-oriented Information Systems* ,2002      周志颖,Scott Tilley,2005

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