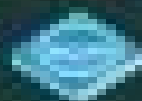


THIRD EDITION

Semantic Web for the Working Ontologist

*Effective Modeling for
Linked Data, RDFS, and OWL*

Dean Allemang
James Hendler
Fabien Gandon



AN IRVING-CLOUD PUBLICATION

Semantic Web For The Working Ontologist

**James Hendler, Fabien Gandon, Dean
Allemang**



Semantic Web For The Working Ontologist:

Semantic Web for the Working Ontologist James Hendler, Fabien Gandon, Dean Allemang, 2020-08-03 Enterprises have made amazing advances by taking advantage of data about their business to provide predictions and understanding of their customers markets and products But as the world of business becomes more interconnected and global enterprise data is no long a monolith it is just a part of a vast web of data Managing data on a world wide scale is a key capability for any business today The Semantic Web treats data as a distributed resource on the scale of the World Wide Web and incorporates features to address the challenges of massive data distribution as part of its basic design The aim of the first two editions was to motivate the Semantic Web technology stack from end to end to describe not only what the Semantic Web standards are and how they work but also what their goals are and why they were designed as they are It tells a coherent story from beginning to end of how the standards work to manage a world wide distributed web of knowledge in a meaningful way The third edition builds on this foundation to bring Semantic Web practice to enterprise Fabien Gandon joins Dean Allemang and Jim Hendler bringing with him years of experience in global linked data to open up the story to a modern view of global linked data While the overall story is the same the examples have been brought up to date and applied in a modern setting where enterprise and global data come together as a living linked network of data Also included with the third edition all of the data sets and queries are available online for study and experimentation at data.worldsworld.org

Semantic Web for the Working Ontologist Dean Allemang, James Hendler, 2009-04-09 The promise of the Semantic Web to provide a universal medium to exchange data information and knowledge has been well publicized There are many sources too for basic information on the extensions to the WWW that permit content to be expressed in natural language yet used by software agents to easily find share and integrate information Until now individuals engaged in creating ontologies formal descriptions of the concepts terms and relationships within a given knowledge domain have had no sources beyond the technical standards documents *Semantic Web for the Working Ontologist* transforms this information into the practical knowledge that programmers and subject domain experts need Authors Allemang and Hendler begin with solutions to the basic problems but don't stop there they demonstrate how to develop your own solutions to problems of increasing complexity and ensure that your skills will keep pace with the continued evolution of the Semantic Web Provides practical information for all programmers and subject matter experts engaged in modeling data to fit the requirements of the Semantic Web De emphasizes algorithms and proofs focusing instead on real world problems creative solutions and highly illustrative examples Presents detailed ready to apply recipes for use in many specific situations Shows how to create new recipes from RDF RDFS and OWL constructs

Semantic Web for the Working Ontologist Dean Allemang, James A. Hendler, 2008

Semantic Web for the Working Ontologist, 2nd Edition Dean Allemang, James Hendler, 2011 *Semantic Web for the Working Ontologist Effective Modeling in RDFS and OWL Second Edition* discusses the capabilities of Semantic Web modeling

languages such as RDFS Resource Description Framework Schema and OWL Web Ontology Language Organized into 16 chapters the book provides examples to illustrate the use of Semantic Web technologies in solving common modeling problems It uses the life and works of William Shakespeare to demonstrate some of the most basic capabilities of the Semantic Web The book first provides an overview of the Semantic Web and aspects of the Web It then discusses semantic modeling and how it can support the development from chaotic information gathering to one characterized by information sharing cooperation and collaboration It also explains the use of RDF to implement the Semantic Web by allowing information to be distributed over the Web along with the use of SPARQL to access RDF data Moreover the reader is introduced to components that make up a Semantic Web deployment and how they fit together the concept of inferencing in the Semantic Web and how RDFS differs from other schema languages Finally the book considers the use of SKOS Simple Knowledge Organization System to manage vocabularies by taking advantage of the inferencing structure of RDFS Plus This book is intended for the working ontologist who is trying to create a domain model on the Semantic Web Updated with the latest developments and advances in Semantic Web technologies for organizing querying and processing information including SPARQL RDF and RDFS OWL 2.0 and SKOS Detailed information on the ontologies used in today's key web applications including ecommerce social networking data mining using government data and more Even more illustrative examples and case studies that demonstrate what semantic technologies are and how they work together to solve real world problems

Semantic Web for the Working Ontologist Liam G. Hewitt, 2015-08-14 Thought provoking and accessible in approach this updated and expanded second edition of the Semantic Web for the Working Ontologist Effective Modeling in RDFS and OWL provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject's core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for advanced graduate level students We hope you find this book useful in shaping your future career Feel free to send us your enquiries related to our publications to info@risepress.com Rise Press

Improving Decision Making Using Semantic Web Technologies Tek Raj Chhetri, 2025-02-01 As technology becomes integral to our lives its influence on decision making in smart cities healthcare and manufacturing is undeniable However challenges such as limited contextual awareness domain knowledge explainability of machine learning ML and issues of interoperability data quality and GDPR General Data Protection Regulation compliance in data sharing hinder effective decision making This book addresses these critical challenges by exploring how the synergy of semantic technologies SW like ontologies and knowledge graphs with or without ML can overcome these challenges to improve decision making Through real world case studies in data sharing manufacturing and agriculture it offers theoretical and practical insights and guidelines of how SW can enhance prediction accuracy integrate domain knowledge support ML explainability and tackle interoperability data quality and GDPR

challenges **Computer Science and Its Applications** Abdelmalek Amine, Ladjel Bellatreche, Zakaria Elberrichi, Erich J. Neuhold, Robert Wrembel, 2015-05-12 This book constitutes the refereed proceedings of the 5th IFIP TC 5 International Conference on Computer Science and Its Applications CIIA 2015 held in Saida Algeria in May 2015 The 56 revised papers presented were carefully reviewed and selected from 225 submissions The papers are organized in the following four research tracks computational intelligence security and network technology information technology and software engineering

Semantic Web Technologies for Intelligent Engineering Applications Stefan Biffl, Marta Sabou, 2016-11-14 This is the first book to explore how Semantic Web technologies SWTs can be used to create intelligent engineering applications IEAs Technology specific chapters reflect the state of the art in relevant SWTs and offer guidelines on how they can be applied in multi disciplinary engineering settings characteristic of engineering production systems In addition a selection of case studies from various engineering domains demonstrate how SWTs can be used to create IEAs that enable for example defect detection or constraint checking Part I Background and Requirements of Industrie 4 0 for Semantic Web Solutions provides the background information needed to understand the book and addresses questions concerning the semantic challenges and requirements of Industrie 4 0 and which key SWT capabilities may be suitable for implementing engineering applications In turn Part II Semantic Web Enabled Data Integration in Multi Disciplinary Engineering focuses on how SWTs can be used for data integration in heterogeneous multi disciplinary engineering settings typically encountered in the creation of flexible production systems Part III Creating Intelligent Applications for Multi Disciplinary Engineering demonstrates how the integrated engineering data can be used to support the creation of IEAs while Part IV Related and Emerging Trends in the Use of Semantic Web in Engineering presents an overview of the broader spectrum of approaches that make use of SWTs to support engineering settings A final chapter then rounds out the book with an assessment of the strengths weaknesses and compatibilities of SWTs and an outlook on future opportunities for applying SWTs to create IEAs in flexible industrial production systems This book seeks to build a bridge between two communities industrial production on one hand and Semantic Web on the other Accordingly stakeholders from both communities should find this book useful in their work Semantic Web researchers will gain a better understanding of the challenges and requirements of the industrial production domain offering them guidance in the development of new technologies and solutions for this important application area In turn engineers and managers from engineering domains will arrive at a firmer grasp of the benefits and limitations of using SWTs helping them to select and adopt appropriate SWTs more effectively In addition researchers and students interested in industrial production related issues will gain valuable insights into how and to what extent SWTs can help to address those issues

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