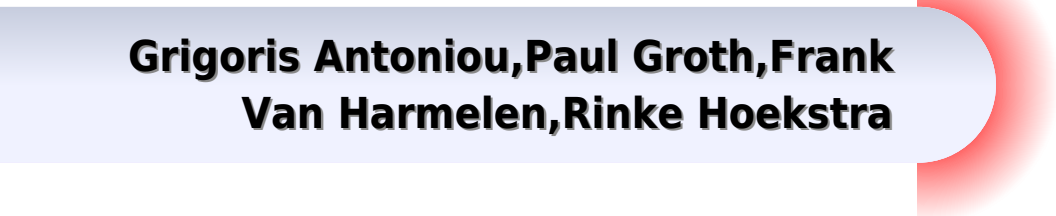


A Semantic Web Primer

Grigoris Antoniou and Frank van Harmelen

A Semantic Web Primer Information Systems

**Grigoris Antoniou, Paul Groth, Frank
Van Harmelen, Rinke Hoekstra**



A Semantic Web Primer Information Systems:

A Semantic Web Primer, third edition Grigoris Antoniou, Paul Groth, Frank Van Harmelen, Rinke Hoekstra, 2012-09-07 A new edition of the widely used guide to the key ideas languages and technologies of the Semantic Web The development of the Semantic Web with machine readable content has the potential to revolutionize the World Wide Web and its uses A Semantic Web Primer provides an introduction and guide to this continuously evolving field describing its key ideas languages and technologies Suitable for use as a textbook or for independent study by professionals it concentrates on undergraduate level fundamental concepts and techniques that will enable readers to proceed with building applications on their own and includes exercises project descriptions and annotated references to relevant online materials The third edition of this widely used text has been thoroughly updated with significant new material that reflects a rapidly developing field Treatment of the different languages OWL2 rules expands the coverage of RDF and OWL defining the data model independently of XML and including coverage of N3 Turtle and RDFa A chapter is devoted to OWL2 the new W3C standard This edition also features additional coverage of the query language SPARQL the rule language RIF and the possibility of interaction between rules and ontology languages and applications The chapter on Semantic Web applications reflects the rapid developments of the past few years A new chapter offers ideas for term projects Additional material including updates on the technological trends and research directions can be found at <http://www.semanticwebprimer.org>

A Semantic Web Primer, third edition Grigoris Antoniou, Paul Groth, Frank Van Harmelen, Rinke Hoekstra, 2025-05-27 A new edition of the widely used guide to the key ideas languages and technologies of the Semantic Web The development of the Semantic Web with machine readable content has the potential to revolutionize the World Wide Web and its uses A Semantic Web Primer provides an introduction and guide to this continuously evolving field describing its key ideas languages and technologies Suitable for use as a textbook or for independent study by professionals it concentrates on undergraduate level fundamental concepts and techniques that will enable readers to proceed with building applications on their own and includes exercises project descriptions and annotated references to relevant online materials The third edition of this widely used text has been thoroughly updated with significant new material that reflects a rapidly developing field Treatment of the different languages OWL2 rules expands the coverage of RDF and OWL defining the data model independently of XML and including coverage of N3 Turtle and RDFa A chapter is devoted to OWL2 the new W3C standard This edition also features additional coverage of the query language SPARQL the rule language RIF and the possibility of interaction between rules and ontology languages and applications The chapter on Semantic Web applications reflects the rapid developments of the past few years A new chapter offers ideas for term projects Additional material including updates on the technological trends and research directions can be found at <http://www.semanticwebprimer.org>

A Semantic Web Primer (Information Systems) Gracie N. Harper, 2015-08-14 Thought provoking and accessible in approach this updated and expanded second edition of the A

Semantic Web Primer Information Systems 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 *Foundations of Semantic Web Technologies* Pascal Hitzler,Markus Krotzsch,Sebastian Rudolph,2009-08-06

Thoroughly covering basic introductions and intuitions technical details and formal foundations this text focuses on the established foundations in this area that have become relatively stable over time It presents the latest developments in Semantic Web standards including RDF RDF Schema OWL 2 RIF and SPARQL It also explores formal semantics OWL querying the relationship between rules and OWL and ontology engineering and applications **Encyclopedia of**

Information Systems and Technology - Two Volume Set Phillip A. Laplante,2015-12-29 Spanning the multi disciplinary scope of information technology the Encyclopedia of Information Systems and Technology draws together comprehensive coverage of the inter related aspects of information systems and technology The topics covered in this encyclopedia encompass internationally recognized bodies of knowledge including those of The IT BOK the Chartered Information Technology Professionals Program the International IT Professional Practice Program British Computer Society the Core Body of Knowledge for IT Professionals Australian Computer Society the International Computer Driving License Foundation European Computer Driving License Foundation and the Guide to the Software Engineering Body of Knowledge Using the universally recognized definitions of IT and information systems from these recognized bodies of knowledge the encyclopedia brings together the information that students practicing professionals researchers and academicians need to keep their knowledge up to date Also Available Online This Taylor E mail e reference taylorandfrancis.com International Tel 44 0 20 7017 6062 E mail online_sales@tandf.co.uk **Web Information Systems and Technologies** Joaquim Filipe,José

Cordeiro,2012-01-15 This book contains the thoroughly refereed and revised best papers from the 7th International Conference on Web Information Systems and Technologies WEBIST 2011 held in Nordwijkerhout The Netherlands in May 2011 organized by the Institute for Systems and Technologies of Information Control and Communication INSTICC in collaboration with ACM SIGMIS and co sponsored by the Workflow Management Coalition WPMC The 12 papers presented in this book were carefully reviewed and selected from 156 submissions The papers are grouped into tow parts on Internet Technology and Web Interfaces and Applications In addition the three invited presentations are also included [Electronic Government and the Information Systems Perspective](#) Kim Normann Andersen,Enrico Francesconi,Ake Grönlund,Tom M van Engers,2011-08-19 This book constitutes the refereed proceedings of the Second International Conference on Electronic Government and the Information Systems Perspective EGOVIS 2011 held in Toulouse France in August September 2011 The

30 revised full papers presented were carefully reviewed and selected from numerous submissions Among the topics addressed are aspects of security reliability privacy and anonymity of e government systems knowledge processing service oriented computing and case studies of e government systems in several countries *Advanced Information Systems Engineering Workshops* Camille Salinesi,Oscar Pastor,2011-06-17 This book constitutes the thoroughly refereed proceedings of ten international workshops held in London UK in conjunction with the 23rd International Conference on Advanced Information Systems Engineering CAiSE 2011 in June 2011 The 59 revised papers were carefully selected from 139 submissions The ten workshops included Business IT Alignment and Interoperability BUSITAL Conceptualization of Modelling Methods CMM Domain Specific Engineering DsE CAiSE Governance Risk and Compliance GRCIS Integration of IS Engineering Tools INISET System and Software Architectures IWSSA Ontology Driven Information Systems Engineering ODISE Ontology Models Conceptualization and Epistemology in Social Artificial and Natural Systems ONTOSE Semantic Search SSW and Information Systems Security Engineering WISSE

Semantic Web Services: Theory, Tools and Applications Cardoso, Jorge,2007-03-31 This book brings together researchers scientists and representatives from different communities to study understand and explore the theory tools and applications of the semantic Web It joins the semantic Web ontologies knowledge management Web services and Web processes into one fully comprehensive resource serving as the platform for exchange of both practical technologies and research Provided by publisher

Adaptive Semantics Visualization Kawa Nazemi,2016-03-22 This book introduces a novel approach for intelligent visualizations that adapts the different visual variables and data processing to human s behavior and given tasks Thereby a number of new algorithms and methods are introduced to satisfy the human need of information and knowledge and enable a usable and attractive way of information acquisition Each method and algorithm is illustrated in a replicable way to enable the reproduction of the entire SemaVis system or parts of it The introduced evaluation is scientifically well designed and performed with more than enough participants to validate the benefits of the methods Beside the introduced new approaches and algorithms readers may find a sophisticated literature review in Information Visualization and Visual Analytics Semantics and information extraction and intelligent and adaptive systems This book is based on an awarded and distinguished doctoral thesis in computer science

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