A Semantic Web Primer (Information Systems)

By Grigoris Antoniou, Paul Groth, Frank van Harmelen, Rinke Hoekstra

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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.

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- Sales Rank: #1459116 in Books
- Brand: Brand: The MIT Press
- Published on: 2012-08-24
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x .50" w x 8.00" l, 1.54 pounds
- Binding: Hardcover
- 288 pages

Editorial Review

Review

The third edition of *A Semantic Web Primer* catches up with the fast evolving semantic web technologies. The book takes the reader from the beginning to the details of developing semantic web applications in a few easy chapters. Not only is the book updated, but it offers an improved reorganization emphasizing key technologies such as SPARQL and discussing new trends such as linked data.

(**Jerome Euzenat**, Senior Research Scientist, National Institute for Research in Computer Science and Control (INRIA), France)

The 'Web of Data' is growing fast but if you really want to understand what's going on then you need to understand what's beneath the gloss. This book strips away the varnish and shows how 'semantic' systems work at scale, and what limits them. It remains the original and best textbook for those engineering knowledge for the web.

(**Dave Robertson**, Head of School of Informatics, University of Edinburgh)

About the Author

Grigoris Antoniou is Professor at the Institute for Computer Science, FORTH (Foundation for Research and Technology-Hellas), Heraklion, Greece. Paul Groth is Assistant Professor, Frank van Harmelen is Professor, and Rinke Hoekstra is a postdoctoral researcher in the Knowledge Representation and Reasoning Group of the Department of Computer Science at the VU University Amsterdam.

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