

### Semantic Web Services, Processes and **Applications (Semantic Web and Beyond)**

From Jorge Cardoso



Semantic Web Services, Processes and Applications (Semantic Web and Beyond) From Jorge Cardoso

Semantics, Web services, and Web processes promise better re-use, universal interoperability and integration. Semantics has been recognized as the primary tool to address the challenges of a broad spectrum of heterogeneity and for improving automation through machine understandable descriptions.

Semantic Web Services, Processes and Applications brings contributions from researchers who study, explore and understand the semantic enabling of all phases of semantic Web processes. This encompasses design, annotation, discovery, choreography and composition. Also this book presents fundamental capabilities and techniques associated with ontological modeling or services, annotation, matching and mapping, and reasoning. This is complemented by discussion of applications in e-Government and bioinformatics.

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#### **Editorial Review**

Review

From the reviews:

"Editors Cardoso and Sheth present a collection of papers on the usage of semantic Web technologies within service-oriented architectures, to provide seamless interoperability between loosely coupled heterogeneous systems. ... This book will be useful to anyone interested in applying semantic Web services and processes to develop real-world applications. It can be used as a textbook at the graduate level or as a reference book ...." (Alessandro Berni, ACM Computing Reviews, Vol. 49 (12), December, 2008)

"A structured approach to understanding and programming semantic Web services, processes, and applications is provided in this book. ... Each chapter closes with a section of review and discussion questions for beginner, intermediate, and advanced readers, and practical exercises are also provided. ... Thanks to its explicit structure, the book is equally suitable for research scientists, courses at the graduate level, and practitioners." (Annika Hinze, ACM Computing Reviews, Vol. 49 (3), March, 2008)

#### From the Back Cover

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**Semantic Web Services, Processes and Applications** is structured for research scientists and graduate-level students in computer science, as well as practitioners in industry.

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