Service Composition for the Semantic Web

Service Composition for the Semantic Web presents an in-depth analysis of aspects related to semantic-enabled Web service modeling and composition. It also covers challenges and solutions to composing Web services on the semantic Web, and proposing a semantic framework for organizing and describing Web services. Service Composition for the Semantic Web describes composability and matching models to check whether semantic Web services can be combined together to avoid unexpected failures at run time, and a set of algorithms that automatically generate detailed descriptions of composite services from high-level specifications of composition requests. The book includes case studies in the areas of digital government and bioinformatics.

Features
- Covers an in-depth analysis of issues related to semantic-enabled Web service modeling and composition
- Introduces detailed framework for the automatic composition of Web services on the semantic Web
- Includes case studies in the areas of digital government and bioinformatics

Contents

Fields of interest
Information Systems Applications (incl.Internet); Database Management; Information Storage and Retrieval

Target groups
Professional/practitioner

Type of publication
Monograph

Evaluations of Process Modeling Grammars
Ontological, Qualitative and Quantitative Analyses Using the Example of BPMN

Jan Recker investigates the notion of quality of business process modeling grammars. His evaluation is based on ontological analysis, qualitative analysis, and quantitative analysis, which are applied to BPMN, a widely used business process modeling grammar. His results first show ontological shortcomings in BPMN, second how these manifest in actual process modeling practice, and third how they eventually influence the usage behavior of modeling practitioners. Seen more general, his book is a landmark for an empirical technology assessment that analyzes how design flaws in technology influence usage behavior.

Features
- This book explores on an extraordinary high level of conceptualization and scientific rigor the current capabilities of the most prominent process modeling grammar BPMN

Fields of interest
Information Systems; Computer Appl. in Administrative Data Processing; Information Systems Applications (incl.Internet)

Target groups
Research

Type of publication
Monograph