

# TABLE OF CONTENTS

Foreword.....	ix
Acknowledgements.....	xiii
List of Reviewers.....	xv
List of Authors.....	xvii

## I. OVERVIEW

1	Ontologies: State of the Art, Business Potential, and Grand Challenges .....	3
	<i>Martin Hepp</i>	

## II. INFRASTRUCTURE

2	Engineering and Customizing Ontologies.....	25
	The Human-Computer Challenge in Ontology Engineering	
	<i>Martin Dzbor and Enrico Motta</i>	
3	Ontology Management Infrastructures.....	59
	<i>Walter Waterfeld, Moritz Weiten, and Peter Haase</i>	
4	Ontology Reasoning with Large Data Repositories.....	89
	<i>Stijn Heymans, Li Ma, Darko Anicic, Zhilei Ma, Nathalie Steinmetz, Yue Pan, Jing Mei, Achille Fokoue, Aditya Kalyanpur, Aaron Kershenbaum, Edith Schonberg, Kavitha Srinivas, Cristina Feier, Graham Hench, Branimir Wetzstein, and Uwe Keller</i>	

## III. EVOLUTION, ALIGNMENT, AND THE BUSINESS PERSPECTIVE

5	Ontology Evolution.....	131
	State of the Art and Future Directions	
	<i>Pieter De Leenheer and Tom Mens</i>	

6	Ontology Alignments .....	177
	An Ontology Management Perspective	
	<i>Jérôme Euzenat, Adrian Mocan, and François Scharffe</i>	
7	The Business View: Ontology Engineering Costs .....	207
	<i>Elena Simperl and York Sure</i>	
IV. EXPERIENCES		
8	Ontology Management in e-Banking Applications.....	229
	Integrating Third-Party Applications within an e-Banking Infrastructure	
	<i>José-Manuel López-Cobo, Silvestre Losada, Laurent Cicurel, José Luis Bas, Sergio Bellido, and Richard Benjamins</i>	
9	Ontology-Based Knowledge Management in Automotive Engineering Scenarios.....	245
	<i>Jürgen Angele, Michael Erdmann, and Dirk Wenke</i>	
10	Ontologising Competencies in an Interorganisational Setting .....	265
	<i>Stijn Christiaens, Pieter De Leenheer, Aldo de Moor, and Robert Meersman</i>	
	About the Editors .....	289
	Index.....	291