Contents

Preface

Eva Blomqvist, Torsten Hahmann, Karl Hammar, Pascal Hitzler, Rinke Hoekstra, Raghava Mutharaju, Maria Poveda-Villalón, Cogan Shimizu, Martin G. Skjæveland, Monika Solanki, Vojtěch Svátek and Lu Zhou

Chapter 1. Patterns for Referring to Multiple Indirectly Specified Objects (MISO): Analysis and Guidelines

Vojtěch Svátek, Ján Kl’uka, Miroslav Vacura, Martin Homola and Marek Dudáš

Chapter 2. Generic Ontology Design Patterns: Roles and Change Over Time

Bernd Krieg-Brückner, Till Mossakowski and Mihai Codescu

Chapter 3. Seed Patterns for Modeling Trees

Aaron Eberhart, David Carral, Pascal Hitzler, Hilmar Lapp and Sebastian Rudolph

Chapter 4. A Logical Design Pattern for Change Over Time: Applications in Transportation Planning

Megan Katsumi and Mark Fox

Chapter 5. Two ODPs Towards the Notion of Influenceable Features of Interest

Iker Esnaola-Gonzalez, Jesús Bermúdez, Izaskun Fernandez and Aitor Arnaiz

Chapter 6. A Design Pattern Describing Use of Personal Data in Privacy Policies

Harshvardhan J. Pandit, Declan O’Sullivan and Dave Lewis

Chapter 7. Formal Relations over Ontology Patterns in Templating Frameworks

Christian Kindermann, Daniel P. Lupp, Martin G. Skjæveland and Leif Harald Karlsen

Chapter 8. An Argument for Generating SHACL Shapes from ODPs

Harshvardhan J. Pandit, Declan O’Sullivan and Dave Lewis

Chapter 9. Secure Product Lifecycle Management with CO-PLM

Falko Schonteich, Andreas Kasten and Ansgar Scherp

Chapter 10. An Ontology Design Pattern for Representing Recurrent Situations

Valentina Anita Carriero, Aldo Gangemi, Andrea Giovanni Nuzzolese and Valentina Presutti

Chapter 11. Ontology Design Patterns for Representing Context in Ontologies Using Aspect Orientation

Ralph Schäfermeier, Heinrich Herre and Adrian Paschke

Chapter 12. Encoding Repetitive Structures in Ontologies

Christian Kindermann, Bijan Parsia and Uli Sattler
Chapter 13. A Pattern-Based Enrichment of Wikidata from Open Data Using OD2WD
   "Muhammad Faiz, Gibran M.F. Wisesa, Adila A. Krisnadhi and Fariz Darari"
   227

Chapter 14. An Ontology Design Pattern Recommendation System
   "Maleeha Arif Yasvi and Raghava Mutharaju"
   258

Chapter 15. Ontology Design Principles for Model-Driven Applications
   "Karl Hammar"
   273

Chapter 16. An Ontology Design Pattern for Geovisualization Content Description
   "Auriol Degbelo"
   279

Chapter 17. SHACL-Based Ontology Design Patterns for Evidence-Based Decision-Making
   "Mario Verhaeg, Lloyd Rutledge and Bastiaan Heeren"
   292

Chapter 18. Towards a Modular Ontology for Space Weather Research
   "Cogan Shimizu, Ryan McGranaghan, Aaron Eberhart and Adam C. Kellerman"
   299

Chapter 19. Syntactic Regularities Based on Language Abstractions
   "Christian Kindermann, Bijan Parsia and Uli Sattler"
   312

Chapter 20. Towards Easy Reusability in the Semantic Web
   "Johannes Lipp, Lars Gleim and Stefan Decker"
   331

Chapter 21. An Ontology Design Pattern for Modeling Bias
   "Amrit Mohan Kaushik and Raghava Mutharaju"
   337

Chapter 22. OTTR: Formal Templates for Pattern-Based Ontology Engineering
   "Martin G. Skjøveland, Daniel P. Lupp, Leif Harald Karlsen and Johan W. Klüwer"
   349

Chapter 23. The Core OTTR Template Library
   "Martin G. Skjøveland"
   378

Author Index
   395