

# Contents

UMP-ST Plug-in: Documenting, Maintaining and Evolving Probabilistic Ontologies Using UnBBayes Framework . . . . .	1
<i>Rommel N. Carvalho, Laécio L. dos Santos, Marcelo Ladeira, Henrique A. da Rocha, and Gilson L. Mendes</i>	
Computing Inferences for Relational Bayesian Networks Based on $\mathcal{ALC}$ Constructs . . . . .	21
<i>Fabio G. Cozman, Rodrigo B. Polastro, Felipe I. Takiyama, and Kate C. Revoredo</i>	
Information Integration with Provenance on the Semantic Web via Probabilistic Datalog+/- . . . . .	41
<i>Thomas Lukasiewicz, Maria Vanina Martinez, Livia Predoiu, and Gerardo I. Simari</i>	
Learning Probabilistic Description Logics. . . . .	63
<i>Fabrizio Riguzzi, Elena Bellodi, Evelina Lamma, Riccardo Zese, and Giuseppe Cota</i>	
Semantics and Inference for Probabilistic Description Logics . . . . .	79
<i>Riccardo Zese, Elena Bellodi, Evelina Lamma, Fabrizio Riguzzi, and Fabiano Aguiari</i>	
A Metaontology for Annotating Ontology Entities with Vagueness Descriptions . . . . .	100
<i>Panos Alexopoulos, Silvio Peroni, Boris Villazón-Terrazas, Jeff Z. Pan, and José Manuel Gómez-Pérez</i>	
Finite Lattices Do Not Make Reasoning in $\mathcal{ALCOI}$ Harder . . . . .	122
<i>Stefan Borgwardt and Rafael Peñaloza</i>	
Fuzzy and Cross-Lingual Ontology Matching Mediated by Background Knowledge. . . . .	142
<i>Konstantin Todorov, Celiné Hudelot, and Peter Geibel</i>	
Semantic Knowledge Discovery and Data-Driven Logical Reasoning from Heterogeneous Data Sources. . . . .	163
<i>Claudia d'Amato, Volha Bryl, and Luciano Serafini</i>	

Learning Probabilistic Description Logic Concepts Under Alternative Assumptions on Incompleteness . . . . .	184
<i>Pasquale Minervini, Claudia d'Amato, Nicola Fanizzi, and Floriana Esposito</i>	
Graph-Based Regularization for Transductive Class-Membership Prediction. . . . .	202
<i>Pasquale Minervini, Claudia d'Amato, Nicola Fanizzi, and Floriana Esposito</i>	
Analyzing User Demographics and User Behavior for Trust Assessment . . . .	219
<i>Davide Ceolin, Paul Groth, Archana Nottamkandath, Wan Fokkink, and Willem Robert van Hage</i>	
Bridging Gaps Between Subjective Logic and Semantic Web . . . . .	242
<i>Davide Ceolin, Archana Nottamkandath, and Wan Fokkink</i>	
Uncertainty Estimation and Analysis of Categorical Web Data . . . . .	265
<i>Davide Ceolin, Willem Robert van Hage, Wan Fokkink, and Guus Schreiber</i>	
Ontological CP-Nets . . . . .	289
<i>Tommaso Di Noia, Thomas Lukasiewicz, Maria Vanina Martinez, Gerardo I. Simari, and Oana Tifrea-Marcuska</i>	
Uncertainty Handling in Named Entity Extraction and Disambiguation for Informal Text . . . . .	309
<i>Maurice van Keulen and Mena B. Habib</i>	
<b>Author Index</b> . . . . .	329

Uncertainty Reasoning for the Semantic Web III  
ISWC International Workshops, URSW 2011-2013,  
Revised Selected Papers

Bobillo, F.; Carvalho, R.N.; Costa, P.C.G.; d'Amato, C.;  
Fanizzi, N.; Laskey, K.B.; Laskey, K.J.; Lukasiewicz, Th.;  
Nickles, M.; Pool, M. (Eds.)

2014, XVIII, 329 p. 56 illus., Softcover

ISBN: 978-3-319-13412-3