

Contents

On the Complexity of Evaluating Regular Path Queries over Linear Existential Rules	1
<i>Meghyn Bienvenu and Michaël Thomazo</i>	
Towards Practical OBDA with Temporal Ontologies (Position Paper)	18
<i>Diego Calvanese, Elem Güzel Kalaycı, Vladislav Ryzhikov, and Guohui Xiao</i>	
Semantic Analysis of R2RML Mappings for Ontology-Based Data Access. . .	25
<i>Cristina Civili, Jose Mora, Riccardo Rosati, Marco Ruzzi, and Valerio Santarelli</i>	
Validating Ontologies Against OWL 2 Profiles with the SPARQL Template Transformation Language.	39
<i>Olivier Corby, Catherine Faron-Zucker, and Raphaël Gazzotti</i>	
Revisiting Grounded Circumscription in Description Logics	46
<i>Stathis Delivorias and Sebastian Rudolph</i>	
Query Rewriting under Linear \mathcal{EL} Knowledge Bases	61
<i>Mirko M. Dimartino, Andrea Calì, Alexandra Poulouvasillis, and Peter T. Wood</i>	
Scalable Reasoning by Abstraction Beyond DL-Lite	77
<i>Birte Glimm, Yevgeny Kazakov, and Trung-Kien Tran</i>	
The Impact of Active Domain Predicates on Guarded Existential Rules	94
<i>Georg Gottlob, Andreas Pieris, and Mantas Šimkus</i>	
Negative Knowledge for Certain Query Answers	111
<i>Leonid Libkin</i>	
Extending Weakly-Sticky Datalog [±] : Query-Answering Tractability and Optimizations	128
<i>Mostafa Milani and Leopoldo Bertossi</i>	
A Hybrid Approach to Query Answering Under Expressive Datalog [±]	144
<i>Mostafa Milani, Andrea Calì, and Leopoldo Bertossi</i>	
Functional Inferences over Heterogeneous Data	159
<i>Kwabena Nuamah, Alan Bundy, and Christopher Lucas</i>	

A Combined Approach to Incremental Reasoning for EL Ontologies 167
Yuan Ren, Jeff Z. Pan, Isa Guclu, and Martin Kollingbaum

Short Papers

Society Rules 187
Abraham Bernstein

On the Limits and Possibilities of Query Rewriting 190
Meghyn Bienvenu

Logic \wedge Reasoning \wedge Scalability $\models \perp$? 192
Ian Horrocks

Efficient Computation of Certain Answers: Breaking the CQ Barrier 193
Leonid Libkin

Author Index 195

Web Reasoning and Rule Systems

10th International Conference, RR 2016, Aberdeen, UK,

September 9-11, 2016, Proceedings

Ortiz, M.; Schlobach, S. (Eds.)

2016, XII, 195 p. 19 illus., Softcover

ISBN: 978-3-319-45275-3