



# International Description Logic 2015 Workshop Programme

## Day 1 (Sunday June 7)

	8:15-9:00	Registration	
<b>Session 1</b>	9:00-10:00	Maarten De Rijke	Entity-oriented Search Engine Result Pages
	10:00-10:30	Franz Baader, Stefan Borgwardt and Barbara Morawska	Dismatching and Local Disunification in EL
Coffe Break	10:30-11:00		
<b>Session 2</b>	9:00-10:00	Meghyn Bienvenu and Riccardo Rosati	Query-based comparison of OBDA specifications
	11:30-12:00	Birte Glimm, Yevgeny Kazakov, Ilianna Kollia and Giorgos Stamou	Lower and Upper Bounds for SPARQL Queries over OWL Ontologies
	12:00-12:15	Alex Borgida, David Toman and Grant Weddell	Referring Expressions in Conjunctive Query Answers: the case of the CFD Dialects of Description Logics
	12:15-12:30	Yujiao Zhou, Bernardo Cuenca Grau, Yavor Nenov and Ian Horrocks	PAGODa: Pay-as-you-go ABox Reasoning
	12:30-12:40	Dmitry Tsarkov, Renate Schmidt and Zhen Li Pablo Fillottrani, C. Maria Keet and David Toman Michele Stawowy Andreas Nakkerud and Evgenij Thorstensen Nicolas Matentzoglou, Uli Sattler and Bijan Parsia Viachaslau Sazonau and Uli Sattler	Dynamic Backtracking in Description Logic Tableaux Polynomial encoding of ORM conceptual models in CFDI_nc^forall-Optimizations for Decision Making and Planning in Description Logic Dynamic Knowledge Bases Heuristics for Applying Cached OBDA Rewritings Empirical Investigation of Subsumption Test Hardness in Description Logic Classification TBox Reasoning in the Probabilistic Description Logic SHIQp
Lunch	12:40-14:10		
<b>Session 3</b>	14:10-14:40	Benjamin Zariwaz and Jens Claßen	Decidable Verification of Knowledge-Based Programs over Description Logic Actions with Sensing
	14:40-15:10	Stefan Borgwardt and Veronika Thost	Temporal Query Answering in EL
	15:10-15:25	Alessandro Artale, Roman Kontchakov, Vladislav Ryzhikov and Michael Zakharyashev	Interval Temporal Description Logics
	15:25-15:40	Diego Calvanese, Marco Montali and Ario Santoso	Inconsistency Management in Generalized Knowledge and Action Bases
	15:40-15:50	Stefan Borgwardt, Theofilos Mailis, Rafael Peñaloza and Anni-Yasmin Turhan Ismail Ilkan Ceylan Ismail Ilkan Ceylan, Thomas Lukasiewicz and Rafael Peñaloza Patrick Koopmann and Renate A. Schmidt Lakhdar Akroun, Nourine Lhouari and Farouk Toumani Gregor Behnke, Pascal Bercher, Susanne Biundo, Birte Glimm, Denis Ponomaryov and Marvin Schiller	Conjunctive Query Answering with Finitely Many Truth Degrees Query Answering in Bayesian Description Logics Answering EL Queries in the Presence of Preferences Saturated-Based Forgetting in the Description Logic SHIF Reasoning in description logics with variables: preliminary results regarding the EL logic Integrating Ontologies and Planning for Cognitive Systems
Coffe Break	15:50-16:20		
<b>Poster Session 1</b>	16:20-17:30	16 posters	
	19:00-22:00	Evening reception	

## Day 2 (Monday June 8)

<b>Session 4</b>	9:00-10:00	Carsten Lutz	Query Rewriting Beyond DL-Lite
	10:00-10:30	Andrew Bate, Boris Motik, Bernardo Cuenca Grau, František Simančík and Ian Horrocks	Extending Consequence-Based Reasoning to SHIQ
Coffe Break	10:30-11:00		
<b>Session 5</b>	11:00-11:30	Damian Bursztyn, François Goasdoué and Ioana Manolescu	Efficient Query Answering in DL-Lite through FOL Reformulation
	11:30-12:00	Georg Gottlob, Marco Manna and Andreas Pieris	Polynomial Combined Rewritings for Linear Existential Rules and DLs with n-ary Relations
	12:00-12:15	Domenico Lembo, Jose Mora, Riccardo Rosati, Domenico Fabio Savo and Evgenij Thorstensen	Mapping Analysis in Ontology-based Data Access: Algorithms and Complexity
	12:15-12:30	Shqiponja Ahmetaj, Wolfgang Fischl, Reinhard Pichler, Mantas Simkus and Sebastian Skritek	DL-Lite and Conjunctive Queries Extended by Optional Matching
Lunch	12:30-14:00		
<b>Session 6</b>	14:00-14:30	Boris Konev, Carsten Lutz, Frank Wolter and Michael Zakharyashev	Conservative Rewritability of Description Logic TBoxes: First Results
	14:30-15:00	Yizheng Zhao and Renate Schmidt	Concept Forgetting for ALCOI-Ontologies
	15:00-15:30	Mark Kaminski and Bernardo Cuenca Grau	Polynomial Horn Rewritings for Description Logics Ontologies
	15:30-16:00	Matthias Knorr	Nonmonotonic Nominal Schemas Revisited

16:00-16:15	David Toman and Grant Weddell	On the Utility of CFI <sub>nc</sub> for all-
16:15-16:30	Petra Kubincová, Ján Kfuka and Martin	Towards Expressive Metamodelling with Instantiation
18:00-23:00	Social event	

### Day 3 (Tuesday June 9)

<b>Session 7</b>	9:00-10:00	Axel Polleres	Integrating Open Data: (How) Can Description Logics Help me?
	10:00-10:30	Andre Hernich, Carsten Lutz, Ana Ozaki and Frank Wolter	Schema.org as a Description Logic
Coffe Break 10:30-11:00			
<b>Session 8</b>	11:00-11:30	Albin Ahmeti, Diego Calvanese, Axel Polleres and Vadim Savenkov	Dealing with Inconsistencies due to Class Disjointness in SPARQL Update
	11:30-12:00	Egor V. Kostylev and Bernardo Cuenca Grau	Semantics of SPARQL under OWL 2 Entailment Regimes
	12:00-12:15	Meghyn Bienvenu, Camille Bourgaux and François Goasdoué	Explaining Query Answers under Inconsistency-Tolerant Semantics over Description Logic Knowledge Bases
	12:15-12:30	Tobias Kaminski, Matthias Knorr and Joao Leite	Reasoning Efficiently with Ontologies and Rules in the Presence of Inconsistencies
	12:30-12:40	Laura Giordano, Valentina Gliozzi, Nicola Olivetti, Gian Luca Pozzato and Luca Violanti	DysToPic: a Multi-Engine Theorem Prover for Preferential Description Logics
		Giovanni Adorni, Marco Maratea, Laura Pandolfo and Luca Pulina	An Ontology-Based Archive for Historical Research
Theofilos Mailis, Anni-Yasmin Turhan and Erik Zenker		A pragmatic approach to answering CQs over fuzzy DL-Lite-ontologies - introducing FLite	
Jhonatan Garcia, Jeff Pan and Achille Fokoue	Handling uncertainty: An extension of DL-Lite with Subjective Logic		
Piero A. Bonatti, Iliana Petrova and Luigi Sauro	Optimized Construction of Secure Knowledge-Base Views		
Veronika Thost, Jan Holste and Özgür Özcep	On Implementing Temporal Query Answering in DL-Lite		
Lunch 12:40-14:10			
<b>Session 9</b>	14:10-14:40	Yevgeny Kazakov and Pavel Klinov	Advancing ELK: Reflexivity, Property Compositions, Deterministic Saturation, and Proof-based Explanations
	14:40-15:10	Cristina Feier, David Carral, Giorgio Stefanoni, Bernardo Cuenca Grau and Ian Horrocks	Extending the Combined Approach Beyond Lightweight Description Logics
	15:10-15:25	Thinh Dong, Chan Le Duc, Philippe Bonnot and Myriam Lamolle	Tableau-based revision in SHIQ
	15:25-15:40	Oliver Fernandez Gil, Franz Baader and Gerhard Brewka	Adding Threshold Concepts to the Description Logic EL
	15:40-15:50	Júlia Pukancová and Martin Homola	Abductive Reasoning with Description Logics: Use Case in Medical Diagnosis
		Mourad Ouziri, Salima Benbernou, Naouel Karam and Allel Hadjali	Managing QoS Acceptability for Service Selection: A Probabilistic Description Logics Based Approach
Ismail Ilkan Ceylan and Rafael Peñaloza		Dynamic Bayesian Description Logics	
Andreas Ecke, Maximilian PenseL and Anni-Yasmin Turhan	Elastiq: Answering Similarity-threshold Instance Queries in EL		
Maurizio Lenzerini, Lorenzo Lepore and Antonella Poggi	A higher-order semantics for OWL 2 QL ontologies		
Francesco Kriegel	Incremental Learning of TBoxes with Formal Concept Analysis		
Coffe Break 15:50-16:20			
<b>Poster Session 2</b> 16:20-17:30 18 posters			
17:30-17:45 ORE live competition results			

### Day 4 (Wednesday June 10)

<b>Session 10</b>	9:00-9:30	Boris Konev, Ana Ozaki and Frank Wolter	Exact Learning Description Logic Ontologies from Data Retrieval Examples
	9:30-10:00	Despoina Trivela, Giorgos Stoilos, Alexandros Chortaras and Giorgos Stamou	Query Rewriting in Horn-SHIQ
	10:00-10:15	Stephan Böhme and Marcel Lippmann	Decidable Contextualized DLs with Rigid Roles
	10:15-10:30	Meghyn Bienvenu, Stanislav Kikot and Vladimir Podolskii	Combined Complexity of Answering Tree-like Queries in OWL 2 QL
Coffe Break 10:30-11:00			
<b>Session 11</b>	11:00-11:30	Víctor Gutiérrez Basulto, Jean Christoph Jung and Thomas Schneider	On the Complexity of Temporal Description Logics with Rigid Roles and Restricted TBoxes
	11:30-12:00	Stefan Bischof, Markus Krötzsch, Axel Polleres and Sebastian Rudolph	Schema-Agnostic Query Rewriting for OWL QL
	12:00-12:15	Andreas Steigmiller, Birte Glimm and Nhung Ngo, Magdalena Ortiz and Mantas Simkus	Completion Graph Caching for Expressive Description Logics
	12:15-12:30		The Combined Complexity of Reasoning with Closed Predicates in Description Logics
Lunch 12:30-13:00 Short Lunch with Sandwiches			
13:00-14:00 Business Meeting			