26th International Workshop on Description Logics
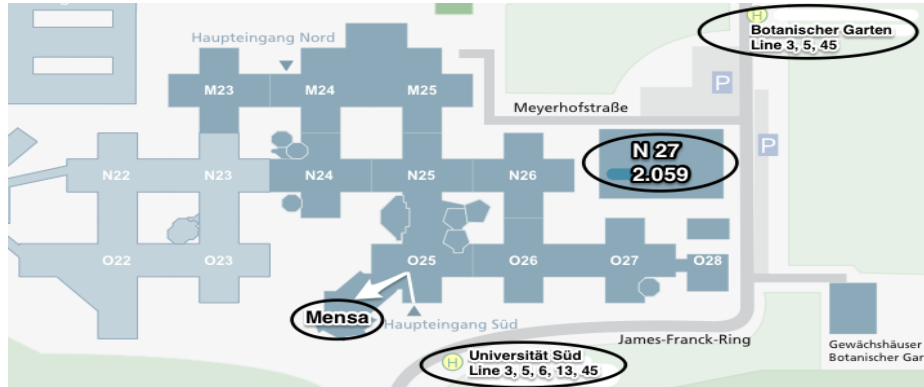
Venue

DL 2013 will be held at the University of Ulm in Building N27, Multimediaroom 2.059.
The evening reception and the poster session take place in the foyer of N27.
Lunch will be served in the Mensa (Cafeteria)

| Bus stops | Botanischer Garten | Line 3, 5 (from city center) |
| | Universität Süd | Line 3, 5, 6 (from city center) |

Internet Access

Wi-Fi network: welcome   **Username:** ore.dl@gast.uni-ulm.de   **Password:** 9N*RvVXa

City Tour

Time	July 24. 18:30-19:30 (City tour ends at Ratskeller restaurant)
Meeting point	Stadthaus, Tourist-Information, Münsterplatz 50, 89073 Ulm (white building in front of Ulmer Münster/Cathedral)
Bus stops	Rathaus Ulm	Line 5, 6 (from Ulm University), 4
	Ulm Hauptbahnhof (7 minutes walk)	Line 3, 5, 6 (from Ulm University)

Social Dinner

Time	July 24. 19:30 - 22:00
Place	Ratskeller Restaurant, Marktplatz 1, 89073 Ulm
Bus stops	Rathaus Ulm	Line 5, 6 (from Ulm University), 4
	Ulm Hauptbahnhof/Central station (10 minutes walk)	Line 3, 5, 6 (from Ulm University)

26th International Workshop on Description Logics
Workshop Program

Day 1 (July 23)

Time	Session / Authors	Title
8:15-9:00	**Registration**	
9:00-10:25	**Actions & Processes**	
9:00-10:00	**Keynote**	
	Giuseppe De Giacomo	**Actions, Processes, and Ontologies**
10:00-10:25	Diego Calvanese, Evgeny Kharlamov, Marco Montali, Ario Santoso and Dmitriy Zheleznyakov	Verification of Inconsistency-Aware Knowledge and Action Bases
10:25-11:00	**Coffee Break**	
11:00-12:40	**Conjunctive Query Answering I**	
11:00-11:25	Egor V. Kostylev and Juan L. Reutter	Complexity of Answering Counting Aggregate Queries over DL-Lite
11:25-11:50	Birte Glimm, Yevgeny Kazakov, Ilianna Kollia and Giorgos Stamou	Using the TBox to Optimise SPARQL Queries
11:50-12:15	Meghyn Bienvenu, Magdalena Ortiz, Mantas Simkus and Guohui Xiao	Tractability Guarantees for DL-Lite Query Answering
12:15-12:40	Stanislav Kikot, Dmitry Tsarkov, Michael Zakharyaschev and Evgeny Zolin	Query Answering via Modal Definability with FaCT++: First Blood
12:40-14:00	**Lunch Break**	
14:00-16:00	**DL Reasoning I**	
14:00-14:25	Chiara Del Vescovo, Pavel Klinov, Bijan Parsia, Ulrike Sattler, Thomas Schneider and Dmitry Tsarkov	Empirical Study of Logic-Based Modules: Cheap Is Cheerful
14:25-14:50	David Toman and Grant Weddell	CFDnc: A PTIME Description Logic with Functional Constraints and Disjointness
14:50-15:15	Yevgeny Kazakov and Pavel Klinov	Incremental Reasoning in EL+ without Bookkeeping
15:15-15:40	Franz Baader, Oliver Fernandez Gil and Barbara Morawska	Hybrid EL-Unification is NP-complete
15:40-15:43	Domenico Lembo, Valerio Santarelli and Domenico Fabio Savo	A Graph-Based Approach for Classifying OWL 2 QL Ontologies
15:43-15:46	Weihong Song, Bruce Spencer and Weichang Du	Complete Classification of Complex ALCHO Ontologies Using a Hybrid Reasoning Approach
15:46-15:49	Riku Nortje, Arina Britz and Thomas Meyer	Module-Theoretic Properties of Reachability Modules for SRIQ
15:49-15:52	Yu Liu and Peter McBrien	SQOWL2: Transactional Type Inference for OWL 2 DL in an RDBMS
15:52-15:55	Nicolas Matentzoglu, Samantha Bail and Bijan Parsia	A Corpus of OWL DL Ontologies
15:55-15:58	Michael Wolters, German Nemirovski and Andreas Nolle	ClickOn_A: An Editor for DL-Lite_A Based Ontology Design
16:00-16:30	**Coffee Break**	
16:30-18:05	**Conjunctive Query Answering II**	
16:30-16:55	Despoina Trivela, Giorgos Stoilos, Alexandros Chortaras and Giorgos Stamou	Optimising Resolution-Based Rewriting Algorithms for DL Ontologies
16:55-17:20	Stanislav Kikot, Roman Kontchakov, Vladimir Podolskii and Michael Zakharyaschev	Query Rewriting over Shallow Ontologies
17:20-17:45	Mark Kaminski and Bernardo Cuenca Grau	Sufficient Conditions for First-Order and Datalog Rewritability in ELU
17:45-17:48	Ralf Möller, Christian Neuenstadt, Özgür Özcep and Sebastian Wandelt	Advances in Accessing Big Data with Expressive Ontologies
17:48-17:51	Maxim Haddad and Diego Calvanese	Extending DL-Lite_A with Singleton Nominals
17:51-17:54	Mariano Rodriguez-Muro, Roman Kontchakov and Michael Zakharyaschev	Query Rewriting and Optimisation with Database Dependencies in Ontop
17:54-17:57	Giorgio Stefanoni, Boris Motik and Ian Horrocks	Introducing Nominals to the Combined Query Answering Approaches for EL
17:57-18:00	Marco Console, Maurizio Lenzerini, Riccardo Mancini, Riccardo Rosati and Marco Ruzzi	Synthesizing Extensional Constraints in Ontology-based Data Access
18:00-18:03	Andreas Nolle and German Nemirovski	ELITE: An Entailment-based Federated Query Engine for Complete and Transparent Semantic Data Integration
18:00-19:30	**Evening Reception**	

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Day 2 (July 24)

9:00-10:25	Biomedical Applications	
9:00-10:00	Keynote *Michel Dumontier*	Drugs, Genetics and Phenotypes: an Admission of Formal Semantics in Biomedical Research
10:00-10:25	*Ernesto Jimenez-Ruiz, Christian Meilicke, Bernardo Cuenca Grau and Ian Horrocks*	Evaluating Mapping Repair Systems with Large Biomedical Ontologies
10:25-11:00	Coffee Break	
11:00-12:35	DL Reasoning II	
11:00-11:25	*Andreas Steigmiller, Birte Glimm and Thorsten Liebig*	Extending Absorption to Nominal Schemas
11:25-11:50	*Jiewen Wu, Taras Kinash, David Toman and Grant Weddell*	Absorption for ABoxes with Local Universal Restrictions
11:50-12:15	*Rafael S. Gonçalves, Nicolas Matentzoglu, Bijan Parsia and Uli Sattler*	The Empirical Robustness of Description Logic Classification
12:15-12:18	*Marvin Schiller and Birte Glimm*	Towards Explicative Inference for OWL
12:18-12:21	*Kejia Wu and Volker Haarslev*	Exploring Parallelization of Conjunctive Branches in Tableau-based Description Logic Reasoning
12:21-12:24	*Loris Bozzato and Luciano Serafini*	Materialization Calculus for Contexts in the Semantic Web
12:24-12:27	*Chan Le Duc, Myriam Lamolle and Olivier Curé*	SHOIQ with Transitive Closure of Roles is Decidable
12:27-12:30	*Daniel Gorin, Lutz Schröder and Thorsten Wißmann*	Reasoning with Bounded Self-Reference using Logical Interpreters
12:30-12:33	*Mohammad Khodadadi, Dmitry Tishkovsky and Renate A. Schmidt*	A Refined Tableau Calculus with Controlled Blocking for the Description Logic SHOI
12:33-12:36	*Cong Wang, David Carral and Pascal Hitzler*	SROIQ Syntax Approximation by Using Nominal Schemas
12:35-14:00	Lunch Break	
14:00-15:35	Temporal Aspects & Change	
14:00-14:25	*Stefan Borgwardt, Marcel Lippmann and Veronika Thost*	Temporal Query Answering in DL-Lite
14:25-14:50	*Alessandro Artale, Roman Kontchakov, Frank Wolter and Michael Zakharyaschev*	Temporalising OWL 2 QL
14:50-15:15	*Diego Calvanese, Magdalena Ortiz and Mantas Simkus*	Evolving Graph Databases under Description Logic Constraints
15:15-15:18	*Diego Calvanese, Giuseppe De Giacomo, Marco Montali and Fabio Patrizi*	Dynamic Systems Based on Description Logics: Formalization, Verification, and Synthesis
15:18-15:21	*Eleni Tsalapati, Giorgos Stoilos, Giorgos Stamou and George Koletsos*	Query Rewriting Under Ontology Evolution
15:21-15:24	*Serge Autexier and Dieter Hutter*	Constructive DL Update and Reasoning for Modeling and Executing the Orchestration of Heterogenous Processes
15:24-15:27	*Ali Rezaei Divroodi and Linh Anh Nguyen*	Bisimulation-Based Comparisons for Interpretations in Description Logics
15:27-15:30	*Francesco Pagliarecci, Luca Spalazzi and Gilberto Taccari*	Reasoning with Temporal ABoxes: Combining DL-Lite core with CTL
15:30-15:33	*Özgür Lütfü Özcep and Ralf Möller*	Spatial Semantics for Concepts
15:35-16:05	Coffee Break	
16:05-17:40	Learning	
16:05-16:30	*Boris Konev, Carsten Lutz and Frank Wolter*	Exact Learning of TBoxes in DL-Lite and EL
16:30-16:55	*Felix Distel and Yue Ma*	A Hybrid Approach for Learning Concept Definitions from Text
16:55-17:20	*Daniel Borchmann*	Axiomatizing Confident EL_gfp-General Concept Inclusions in the Presence of Trusted Individuals
17:20-17:40	ORE Reasoner Competition: Announcement of Results	
18:30-19:30	Guided City Tour	
19:30-22:00	Social Dinner	

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Day 3 (July 25)

9:00-10:25	FOL Fragments	
9:00-10:00	Keynote *Ian Pratt-Hartmann*	Transitivity and Equivalence in Decidable Fragments of First-Order Logic
10:00-10:25	*Yazmin Angelica Ibanez-Garcia, Carsten Lutz and Thomas Schneider*	Finite Model Reasoning in Horn-SHIQ
10:25-11:00	Coffee Break	
11:00-12:35	Uncertainty	
11:00-11:25	*Jean Christoph Jung and Carsten Lutz*	Ontology-Based Access to Probabilistic Data with OWL QL
11:25-11:50	*Rafael Peñaloza and Tingting Zou*	Rough EL Completion
11:50-12:15	*Arina Britz, Giovanni Casini, Thomas Meyer and Ivan Varzinczak*	Preferential Role Restrictions
12:15-12:18	*Francesca Alessandra Lisi and Umberto Straccia*	A System for Learning GCI Axioms in Fuzzy Description Logics
12:18-12:21	*Fernando Bobillo and Umberto Straccia*	General Concept Inclusion Absorptions for Fuzzy Description logics: A First Step
12:21-12:24	*Stefan Borgwardt and Rafael Peñaloza*	About Subsumption in Fuzzy EL
12:24-12:27	*Andreas Ecke, Rafael Peñaloza and Anni-Yasmin Turhan*	Role-depth bounded Least Common Subsumer in Prob-EL with Nominals
12:27-12:30	*Denis Ponomaryov and Dmitry Vlasov*	Concept definability and Interpolation in Enriched Models of EL-TBoxes
12:30-12:33	*Mohamed Chaabani, Rachid Echahed and Martin Strecker*	Logical Foundations for Reasoning about Transformations of Knowledge Bases
12:35-14:00	Lunch Break	
14:00-15:35	Rules & Nonmonotonic DLs	
14:00-14:25	*André Hernich, Clemens Kupke, Thomas Lukasiewicz and Georg Gottlob*	Well-Founded Semantics for Extended Datalog and Ontological Reasoning
14:25-14:50	*Despoina Magka, Markus Krötzsch and Ian Horrocks*	Nonmonotonic Existential Rules for Non-Tree-Shaped Ontological Modelling
14:50-15:15	*Laura Giordano, Valentina Gliozzi, Nicola Olivetti and Gian Luca Pozzato*	Minimal Model Semantics and Rational Closure in Description Logics
15:15-15:18	*Giovanni Casini, Thomas Meyer, Ivan Varzinczak and Kody Moodley*	Nonmonotonic Reasoning in Description Logics: Rational Closure for the ABox
15:18-15:21	*Giovanni Casini, Thomas Meyer, Kody Moodley and Ivan Varzinczak*	Towards Practical Defeasible Reasoning for Description Logics
15:21-15:24	*Pierre Bourhis, Michael Morak and Andreas Pieris*	The Impact of Disjunction on Query Answering Under Guarded-based Existential Rules
15:24-15:27	*Thomas Lukasiewicz, Maria Vanina Martinez and Gerardo Simari*	Preference−Based Query Answering in Datalog+/- Ontologies
15:27-15:30	*Tommaso Di Noia, Thomas Lukasiewicz and Gerardo Simari*	Reasoning with DL-based CP-nets
15:30-15:33	*Thomas Lukasiewicz, Maria Vanina Martinez and Gerardo Simari*	Complexity of Inconsistency-Tolerant Query Answering in Datalog+/–
15:35-16:05	Coffee break	
16:05-18:30	Poster Session	

Day 4 (July 26)

9:00-10:40	Interpolation & Approximation	
9:00-9:25	*Michel Ludwig and Boris Konev*	Towards Practical Uniform Interpolation and Forgetting for ALC TBoxes
9:25-9:50	*Anni-Yasmin Turhan and Benjamin Zarrieß*	Computing the lcs w.r.t. General EL+-TBoxes
9:50-10:15	*Nadeschda Nikitina and Sven Schewe*	More is Sometimes Less: Succinctness in EL
10:15-10:40	*Marco Console, Valerio Santarelli and Domenico Fabio Savo*	Efficient approximation in DL-Lite of OWL 2 ontologies
10:40-11:00	Coffee Break	
11:00-12:40	Non-Standard Reasoning	
11:00-11:25	*Marcelo Arenas, Elena Botoeva, Diego Calvanese and Vladislav Ryzhikov*	Computing Solutions in OWL 2 QL Knowledge Exchange
11:25-11:50	*Martin Homola, Jan Kluka, Vojtěch Svátek and Miroslav Vacura*	Towards Typed Higher-Order Description Logics
11:50-12:15	*Roman Kontchakov, Vladislav Ryzhikov and Michael Zakharyaschev*	Conjunctive Query Inseparability in OWL 2 QL is ExpTime-hard
12:15-12:40	*Meghyn Bienvenu and Riccardo Rosati*	New inconsistency-tolerant semantics for robust ontology-based data access
12:40-13:00	Lunch Break (with sandwiches)	
13:00-14:00	Business Meeting	