

# Technical Reports

Chair of Automata Theory  
Institute of Theoretical Computer Science  
Faculty of Computer Science  
Technische Universität Dresden  
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This is the list of technical reports of the Chair of Automata Theory at TU Dresden. When available, links to online versions of abstract, BibTeX entries, and the papers are provided. More information about the research group is available at the above web page, where recent versions of this document are available in PDF format or as web pages.

## 2017

Maximilian Pensel and Anni-Yasmin Turhan: **Making Quantification Relevant again—the case of Defeasible  $\mathcal{EL}_{bot}$** . 17-01, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2017. See <http://lat.inf.tu-dresden.de/research/reports.html>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#PeTu-LTCS-17-01>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#PeTu-LTCS-17-01>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2017/PeTu-LTCS-17-01.pdf>

Franz Baader: **Concept Descriptions with Set Constraints and Cardinality Constraints**. 17-02, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2017. See <http://lat.inf.tu-dresden.de/research/reports.html>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Baad-LTCS-17-02>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Baad-LTCS-17-02>

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Franz Baader, Stefan Borgwardt, Patrick Koopmann, Ana Ozaki, and Veronika Thost: **Metric Temporal Description Logics with Interval-Rigid Names (Extended Version)**. 17-03, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2017. see <https://lat.inf.tu-dresden.de/research/reports.html>

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Franz Baader, Stefan Borgwardt, and Marcel Lippmann: **Query Rewriting for *DL-Lite* with  $n$ -ary Concrete Domains (Extended Version)**. 17-04, Chair for Automata Theory, Technische Universität Dresden, Germany, 2017. see <https://lat.inf.tu-dresden.de/research/reports.html>

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Franz Baader, Patrick Koopmann, and Anni-Yasmin Turhan: **Using Ontologies to Query Probabilistic Numerical Data (Extended Version)**. 17-05, Chair for Automata Theory, Technische Universität Dresden, Germany, 2017. See <https://lat.inf.tu-dresden.de/research/reports.html>

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Camille Bourgaux and Anni-Yasmin Turhan: **Temporal Query Answering in *DL-Lite* over Inconsistent Data**. 17-06, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2017. see <http://lat.inf.tu-dresden.de/research/reports.html>

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## 2016

Claudia Carapelle and Anni-Yasmin Turhan: **Decidability of  $\mathcal{ALC}^P(\mathcal{D})$  for concrete domains with the EHD-property.** 16-01, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2016.

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Franz Baader and Oliver Fernández Gil: **Extending Description Logic  $t\mathcal{EL}(deg)$  with Acyclic TBoxes.** 16-02, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2016. See <http://lat.inf.tu-dresden.de/research/reports.html>

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Franz Baader, Pavlos Marantidis, and Alexander Okhotin: **Approximately Solving Set Equations.** 16-03, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2016. See <http://lat.inf.tu-dresden.de/research/reports.html>

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Franz Baader, Pavlos Marantidis, and Alexander Okhotin: **Approximate Unification in the Description Logic  $\mathcal{FL}_0$ .** 16-04, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2016. See <http://lat.inf.tu-dresden.de/research/reports.html>

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Franz Baader and Oliver Fernández Gil: **Decidability and Complexity of Threshold Description Logics Induced by Concept Similarity Measures**. 16-07, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2016. See <http://lat.inf.tu-dresden.de/research/reports.html>

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Franz Baader, Oliver Fernández Gil, and Pavlos Marantidis: **Approximation in Description Logics: How Weighted Tree Automata Can Help to Define the Required Concept Comparison Measures in  $\mathcal{FL}_0$** . 16-08, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2016. See <http://lat.inf.tu-dresden.de/research/reports.html>

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## 2015

Francesco Kriegel: **NextClosures – Parallel Exploration of Constrained Closure Operators**. 15-01, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2015. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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Francesco Kriegel: **Model-Based Most-Specific Concept Descriptions and Least Common Subsumers in ALEQN(Self)**. 15-02, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2015. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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Franz Baader, Stefan Borgwardt, and Barbara Morawska: **Dismatching and Local Disunification in  $\mathcal{EL}$** . 15-03, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2015. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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Stephan Böhme and Marcel Lippmann: **Description Logics of Context with Rigid Roles Revisited**. 15-04, Chair of Automata Theory, TU Dresden, 2015. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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Stefan Borgwardt, Marco Cerami, and Rafael Peñaloza: **Subsumption in Finitely Valued Fuzzy  $\mathcal{EL}$** . 15-06, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2015. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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Stefan Borgwardt and Veronika Thost: **LTL over  $\mathcal{EL}$  Axioms**. 15-07, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2015. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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Stefan Borgwardt and Veronika Thost: **Temporal Query Answering in  $\mathcal{EL}$** . 15-08, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Uni-

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Franz Baader, Gerhard Brewka, and Oliver Fernández Gil: **Adding Threshold Concepts to the Description Logic  $\mathcal{EL}$** . 15-09, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2015. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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Benjamin Zarrieß and Jens Claßen: **Verification of Knowledge-Based Programs over Description Logic Actions**. 15-10, Chair of Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2015. See <http://lat.inf.tu-dresden.de/research/reports.html>

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Stefan Borgwardt and Rafael Peñaloza: **Infinitely Valued Gödel Semantics for Expressive Description Logics**. 15-11, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2015. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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Veronika Thost, Jan Holste, and Özgür Özçep: **On Implementing Temporal Query Answering in *DL-Lite***. 15-12, Chair of Automata Theory, TU Dresden, Dresden, Germany, 2015.

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Daniel Borchmann, Felix Distel, and Francesco Kriegel: **Axiomatization of General Concept Inclusions from Finite Interpretations**. 15-13, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2015. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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Francesco Kriegel: **Learning General Concept Inclusions in Probabilistic Description Logics**. 15-14, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2015. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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Stefan Borgwardt and Veronika Thost: **Temporal Query Answering in *DL-Lite* with Negation**. 15-16, Chair for Automata Theory, Technische Universität Dresden, Germany, 2015.

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Franz Baader, Stefan Borgwardt, and Marcel Lippmann: **Temporal Conjunctive Queries in Expressive DLs with Non-simple Roles**. 15-17, Chair for Automata Theory, Technische Universität Dresden, Germany, 2015.

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Stefan Borgwardt and Rafael Peñaloza: **A Tableau Algorithm for *SROIQ* under Infinitely Valued Gödel Semantics**. 15-18, Chair for Automata Theory, Technische

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Benjamin Zarriß and Jens Claßen: **Decidable Verification of Golog Programs over Non-Local Effect Actions**. 15-19, Chair of Automata Theory, TU Dresden, Dresden, Germany, 2015. Extended version. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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## 2014

Franz Baader and Marcel Lippmann: **Runtime Verification Using a Temporal Description Logic Revisited**. 14-01, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2014. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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Stefan Borgwardt: **The Complexity of Fuzzy Description Logics over Finite Lattices with Nominals**. 14-02, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2014. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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Franz Baader and Barbara Morawska: **Matching with respect to general concept inclusions in the Description Logic  $\mathcal{EL}$** . 14-03, Chair of Automata Theory, Institute



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Rafael Peñaloza, Veronika Thost, and Anni-Yasmin Turhan: **Conjunctive Query Answering in Rough EL**. 14-04, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2014. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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Yue Ma and Rafael Peñaloza: **Towards Parallel Repair Using Decompositions**. 14-05, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2014. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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Stefan Borgwardt, Marcel Lippmann, and Veronika Thost: **Reasoning with Temporal Properties over Axioms of *DL-Lite***. 14-06, Chair of Automata Theory, TU Dresden, Dresden, Germany, 2014. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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Franz Baader, Stefan Borgwardt, and Marcel Lippmann: **On the Complexity of Temporal Query Answering**. 13-01, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2013. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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Yue Ma and Felix Distel: **Learning Formal Definitions for Snomed CT from Text**. 13-03, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2013. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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