

Technical Reports

Chair of Automata Theory
Institute of Theoretical Computer Science
Faculty of Computer Science
Technische Universität Dresden
<http://lat.inf.tu-dresden.de/index-en.html>

January 15, 2018

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>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2017/Baad-LTCS-17-02.pdf>

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>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaBoKoOzTh-LTCS-17-03>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaBoKoOzTh-LTCS-17-03>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2017/BaBoKoOzTh-LTCS-17-03.pdf>

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>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaBL-LTCS-17-04>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaBL-LTCS-17-04>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2017/BaBL-LTCS-17-04.pdf>

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>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaKoTu-LTCS-17-05>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaKoTu-LTCS-17-05>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2017/BaKoTu-LTCS-17-05.pdf>

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>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BoTu-LTCS-17-06>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BoTu-LTCS-17-06>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2017/BoTu-LTCS-17-06.pdf>

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.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#CaTu-LTCS-16-01>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#CaTu-LTCS-16-01>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2016/CaTu-LTCS-16-01.pdf>

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>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaFe-LTCS-16-02>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaFe-LTCS-16-02>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2016/BaFe-LTCS-16-02.pdf>

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>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaMa0k-LTCS-16-03>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaMa0k-LTCS-16-03>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2016/BaMa0k-LTCS-16-03.pdf>

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>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaMa0k-LTCS-16-04>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaMa0k-LTCS-16-04>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2016/BaMa0k-LTCS-16-04.pdf>

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>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaFe-LTCS-16-07>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaFe-LTCS-16-07>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2016/BaFe-LTCS-16-07.pdf>

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>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaFM-LTCS-16-08>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaFM-LTCS-16-08>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2016/BaFM-LTCS-16-08.pdf>

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Kr-LTCS-15-01>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Kr-LTCS-15-01>

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Kr-LTCS-15-02>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Kr-LTCS-15-02>

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaBM-LTCS-15-03>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaBM-LTCS-15-03>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2015/BaBM-LTCS-15-03.pdf>

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BoLi-LTCS-15-04>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BoLi-LTCS-15-04>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2015/BoLi-LTCS-15-04.pdf>

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BoCP-LTCS-15-06>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BoCP-LTCS-15-06>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2015/BoCP-LTCS-15-06.pdf>

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BoTh-LTCS-15-07>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BoTh-LTCS-15-07>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2015/BoTh-LTCS-15-07.pdf>

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

versität Dresden, Dresden, Germany, 2015. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BoTh-LTCS-15-08>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BoTh-LTCS-15-08>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2015/BoTh-LTCS-15-08.pdf>

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaBrF-LTCS-15-09>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaBrF-LTCS-15-09>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2015/BaBrF-LTCS-15-9.pdf>

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>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#ZaCl-LTCS-15-10>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#ZaCl-LTCS-15-10>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2015/ZaCl-LTCS-15-10.pdf>

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BoPe-LTCS-15-11>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BoPe-LTCS-15-11>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2015/BoPe-LTCS-15-11.pdf>

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.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#TH0e-LTCS-15-12>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#TH0e-LTCS-15-12>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2015/TH0e-LTCS-15-12.pdf>

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BoDiKr-LTCS-15-13>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BoDiKr-LTCS-15-13>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2015/BoDiKr-LTCS-15-13.pdf>

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Kr-LTCS-15-14>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Kr-LTCS-15-14>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2015/Kr-LTCS-15-14.pdf>

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

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BoTh-LTCS-15-16>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BoTh-LTCS-15-16>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2015/BoTh-LTCS-15-16.pdf>

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.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaBL-LTCS-15-17>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaBL-LTCS-15-17>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2015/BaBL-LTCS-15-17.pdf>

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

Universität Dresden, Germany, 2015.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BoPe-LTCS-15-18>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BoPe-LTCS-15-18>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2015/BoPe-LTCS-15-18.pdf>

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#ZaCla-LTCS-15-19>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#ZaCla-LTCS-15-19>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2015/ZaCla-LTCS-15-19.pdf>

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaLi-LTCS-14-01>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaLi-LTCS-14-01>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2014/BaLi-LTCS-14-01.pdf>

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Borg-LTCS-14-02>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Borg-LTCS-14-02>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2014/Borg-LTCS-14-02.pdf>

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

of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2014. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaMo-LTCS-14-3>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaMo-LTCS-14-3>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2014/BaMo-LTCS-14-3.pdf>

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#PeTT-LTCS-14-04>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#PeTT-LTCS-14-04>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2014/PeTT-LTCS-14-04.pdf>

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#MaPe-LTCS-14-05>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#MaPe-LTCS-14-05>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2014/MaPe-LTCS-14-05.pdf>

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BoLT-LTCS-13-05>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BoLT-LTCS-13-05>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2014/BoLT-LTCS-14-06.pdf>

Michel Ludwig and Rafael Peñaloza: **Error-Tolerant Reasoning in the Description Logic EL**. 14-11, 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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#LuPe-LTCS-14-11>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#LuPe-LTCS-14-11>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2014/LuPe-LTCS-14-11.pdf>

2013

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaBoLi-LTCS-13-01>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaBoLi-LTCS-13-01>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2013/BaBoLi-LTCS-13-01.pdf>

Daniel Borchmann: **A General Form of Attribute Exploration**. 13-02, 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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Borc-LTCS-13-02>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Borc-LTCS-13-02>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2013/Borc-LTCS-13-02.pdf>

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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#MaDi-LTCS-13-03>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#MaDi-LTCS-13-03>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2013/MaDi-LTCS-13-03.pdf>

Daniel Borchmann: **Exploration by Confidence**. 13-04, 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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Borch-LTCS-13-04>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Borch-LTCS-13-04>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2013/Borch-LTCS-13-04.pdf>

pdf

Stefan Borgwardt, Marcel Lippmann, and Veronika Thost: **Temporal Query Answering w.r.t. DL-Lite-Ontologies**. 13-05, Chair of Automata Theory, TU Dresden, Dresden, Germany, 2013. Revised version. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BoLT-LTCS-13-05>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BoLT-LTCS-13-05>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2013/BoLiTh-LTCS-13-05.pdf>

Benjamin Zarri s and Anni-Yasmin Turhan: **Most Specific Generalizations w.r.t. General \mathcal{EL} -TBoxes**. 13-06, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universit t Dresden, Dresden, Germany, 2013. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#ZaTu-LTCS-13-06>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#ZaTu-LTCS-13-06>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2013/ZaTu-LTCS-13-06.pdf>

Franz Baader, Oliver Fern ndez Gil, and Barbara Morawska: **Hybrid Unification in the Description Logic EL**. 13-07, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universit t Dresden, Dresden, Germany, 2013. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaFM-LTCS-13-07>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaFM-LTCS-13-07>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2013/BaFM-LTCS-13-7.pdf>

Franz Baader and Benjamin Zarri s: **Verification of Golog Programs over Description Logic Actions**. 13-08, Chair of Automata Theory, TU Dresden, Dresden, Germany, 2013. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaZa-LTCS-13-08>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2013/BaZa-LTCS-13-08.pdf>

Stefan Borgwardt, Felix Distel, and Rafael Pe alozza: **Goedel Description Logics: Decidability in the Absence of the Finitely-Valued Model Property**. 13-09, Chair

for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2013. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BoDP-LTCS-13-09>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BoDP-LTCS-13-09>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2013/BoDP-LTCS-13-09.pdf>

Benjamin Zarriß and Jens Claßen: **On the Decidability of Verifying LTL Properties of Golog Programs**. 13-10, Chair of Automata Theory, TU Dresden, Dresden, Germany, 2013. Extended version. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#ZaCla-LTCS-13-10>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#ZaCla-LTCS-13-10>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2013/ZaCla-LTCS-13-10.pdf>

Daniel Borchmann: **Model Exploration by Confidence with Completely Specified Counterexamples**. 13-11, 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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Borc-LTCS-13-11>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Borc-LTCS-13-11>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2013/Borc-LTCS-13-11.pdf>

Andreas Ecke and Anni-Yasmin Turhan: **Similarity Measures for Computing Relaxed Instances w.r.t. General \mathcal{EL} -TBoxes**. 13-12, 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>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#EcTu-TR-13>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#EcTu-TR-13>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2013/TR-simi.pdf>

2012

Franz Baader and Alexander Okhotin: **Solving Language Equations and Disequations Using Looping Tree Automata with Colors**. 12-01, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2012. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaOk-LTCS-12-01>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaOk-LTCS-12-01>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2012/BaOk-LTCS-12-01.pdf>

Franz Baader, Stefan Borgwardt, and Barbara Morawska: **SAT Encoding of Unification in \mathcal{ELH}_{R^+} w.r.t. Cycle-Restricted Ontologies**. 12-02, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2012. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaBM-LTCS-12-02>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaBM-LTCS-12-02>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2012/BaBM-LTCS-12-02.pdf>

Franz Baader, Stefan Borgwardt, and Barbara Morawska: **Computing Minimal \mathcal{EL} -Unifiers is Hard**. 12-03, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2012. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaBM-LTCS-12-03>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaBM-LTCS-12-03>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2012/BaBM-LTCS-12-03.pdf>

Stefan Borgwardt and Rafael Peñaloza: **Consistency in Fuzzy Description Logics over Residuated De Morgan Lattices**. 12-04, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2012. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BoPe-LTCS-12-04>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BoPe-LTCS-12-04>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2012/BoPe-LTCS-12-04.pdf>

Franz Baader, Stefan Borgwardt, and Barbara Morawska: **A Goal-Oriented Algo-**

rithm for Unification in \mathcal{ELH}_{R^+} w.r.t. Cycle-Restricted Ontologies. 12-05, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2012. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaBM-LTCS-12-05>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaBM-LTCS-12-05>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2012/BaBM-LTCS-12-05.pdf>

Daniel Borchmann: **On Confident GCIs of Finite Interpretations.** 12-06, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2012. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Borc-LTCS-12-06>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Borc-LTCS-12-06>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2012/Borc-LTCS-12-06.pdf>

2011

Franz Baader, Nguyen Thanh Binh, Stefan Borgwardt, and Barbara Morawska: **Unification in the Description Logic \mathcal{EL} Without the Top Concept.** 11-01, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2011. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BBBM-LTCS-11-01>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BBBM-LTCS-11-01>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2011/BBBM-LTCS-11-01.pdf>

Stefan Borgwardt and Rafael Peñaloza: **Complementation and Inclusion of Weighted Automata on Infinite Trees: Revised Version.** 11-02, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2011. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BoPe-LTCS-11-02>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BoPe-LTCS-11-02>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2011/BoPe-LTCS-11-02.pdf>

Rafael Peñaloza: **Towards a Tableau Algorithm for Fuzzy ALC with Prod-**

uct T-norm. 11-03, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2011. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Pena-LTCS-11-03>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Pena-LTCS-11-03>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2011/Pena-LTCS-11-03.pdf>

Stefan Borgwardt and Barbara Morawska: **Finding Finite Herbrand Models.** 11-04, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2011. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BoMo-LTCS-11-04>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BoMo-LTCS-11-04>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2011/BoMo-LTCS-11-04.pdf>

Franz Baader, Stefan Borgwardt, and Barbara Morawska: **Unification in the Description Logic \mathcal{EL} w.r.t. Cycle-Restricted TBoxes.** 11-05, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2011. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaBM-LTCS-11-05>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaBM-LTCS-11-05>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2011/BaBM-LTCS-11-05.pdf>

Stefan Borgwardt and Rafael Peñaloza: **Undecidability of Fuzzy Description Logics.** 11-06, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2011. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BoPe-LTCS-11-06>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BoPe-LTCS-11-06>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2011/BoPe-LTCS-11-06.pdf>

2010

Franz Baader, Marcel Lippmann, and Hongkai Liu: **Adding Causal Relationships to DL-based Action Formalisms.** 10-01, Chair of Automata Theory, Institute of

Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2010. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaLiLi-LTCS-10-01>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaLiLi-LTCS-10-01>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2010/BaLiLi-LTCS-10-01.pdf>

Franz Baader and Barbara Morawska: **SAT Encoding of Unification in \mathcal{EL}** . 10-04, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2010. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaMo-LTCS-10-04>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaMo-LTCS-10-04>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2010/BaMo-LTCS-10-04.pdf>

Rafael Peñaloza and Anni-Yasmin Turhan: **Completion-based computation of least common subsumers with limited role-depth for \mathcal{EL} and Prob- \mathcal{EL}^{01}** . LTCS-10-02, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2010. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#PenTur-ltcs-10-02>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#PenTur-ltcs-10-02>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2010/PenTur-10-02.pdf>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2010/PenTur-10-02.ps.gz>

Rafael Peñaloza and Anni-Yasmin Turhan: **Completion-based computation of most specific concepts with limited role-depth for \mathcal{EL} and Prob- \mathcal{EL}^{01}** . LTCS-10-03, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2010. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#PenTur-ltcs-10-03>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#PenTur-ltcs-10-03>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2010/PenTur-10-03.pdf>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2010/PenTur-10-03.ps.gz>

Stefan Borgwardt and Rafael Peñaloza: **Complementation and Inclusion of Weighted Automata on Infinite Trees**. LTCS-10-05, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2010. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BoPe-ltcs-10-05>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BoPe-ltcs-10-05>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2010/BoPe-LTCS-10-05.pdf>

2009

Conrad Drescher, Hongkai Liu, Franz Baader, Steffen Guhlemann, Uwe Petersohn, Peter Steinke, and Michael Thielscher: **Putting ABox Updates into Action**. 09-01, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2009. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#LTCS-Report09-01>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#LTCS-Report09-01>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2009/LTCS-Report09-01.pdf>

Franz Baader, Martin Knechtel, and Rafael Peñaloza: **Computing Boundaries for Reasoning in Sub-Ontologies**. 09-02, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2009. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaKP-LTCS-09>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaKP-LTCS-09>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2009/BaKP-LTCS-09.pdf>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2009/BaKP-LTCS-09.ps.gz>

Rafael Peñaloza and Barış Sertkaya: **On the Complexity of Axiom Pinpointing in Description Logics**. 09-04, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2009. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#PeSe-LTCS-09-04>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#PeSe-LTCS-09-04>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2009/PeSe-LTCS-09-04.pdf>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2009/PeSe-LTCS-09-04.ps.gz>

Franz Baader, Hongkai Liu, and Anees ul Mehdi: **Integrate Action Formalisms into Linear Temporal Description Logics**. LTCS-09-03, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2009. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BMLSW-LTCS-09-03>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BMLSW-LTCS-09-03>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2009/LTCS-Report09-03.pdf>

2008

Franz Baader, Silvio Ghilardi, and Carsten Lutz: **LTL over Description Logic Axioms**. 08-01, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2008. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#LTCS-Report08-01>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#LTCS-Report08-01>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2008/LTCS-Report08-01.pdf>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2008/LTCS-Report08-01.ps.gz>

Felix Distel: **Model-based Most Specific Concepts in Description Logics with Value Restrictions**. 08-04, Institute for theoretical computer science, TU Dresden, Dresden, Germany, 2008. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Dist08>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Dist08>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2008/modelmcs.pdf>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2008/modelmcs.ps.gz>

Franz Baader and Felix Distel: **Exploring finite models in the Description Logic $\mathcal{EL}_{\text{gfp}}$** . 08-05, Institute for Theoretical Computer Science, TU Dresden, Dresden, 2008. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaDi08>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaDi08>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2008/ModelExploration.pdf>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2008/ModelExploration.ps.gz>

Franz Baader and Rafael Peñaloza: **Blocking and Pinpointing in Forest Tableaux**. LTCS-08-02, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2008. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaPe-LTCS-07-01>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaPe-LTCS-07-01>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2008/BaPe-LTCS-08-02.pdf>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2008/BaPe-LTCS-08-02.ps.gz>

Franz Baader and Rafael Peñaloza: **Pinpointing in Terminating Forest Tableaux**. LTCS-08-03, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2008. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaPe-LTCS-08-03>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaPe-LTCS-08-03>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2008/BaPe-LTCS-08-03.pdf>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2008/BaPe-LTCS-08-03.ps.gz>

Bariş Sertkaya: **Some Computational Problems Related to Pseudo-intents**. LTCS-08-06, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2008. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#sert-08-06>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#sert-08-06>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2008/sert-08-06.pdf>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2008/sert-08-06.ps.gz>

2007

Franz Baader and Felix Distel: **A finite basis for the set of EL-implications holding in a finite model.** 07-02, Inst. für Theoretische Informatik, TU Dresden, Dresden, Germany, 2007.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Dist07>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Dist07>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2007/ELbasis.pdf>

Boontawee Suntisrivaraporn: **Module Extraction and Incremental Classification: A Pragmatic Approach for EL+ Ontologies.** LTCS-07-03, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2007. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Sun-07-LTCS>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Sun-07-LTCS>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2007/Sun-07-LTCS.pdf>

2006

Franz Baader and Alexander Okhotin: **On Language Equations with One-sided Concatenation.** LTCS-06-01, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2006. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderOkhotin-LTCS-06-01>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaderOkhotin-LTCS-06-01>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2006/BaaderOkhotin-LTCS-06-01.pdf>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2006/BaaderOkhotin-LTCS-06-01.ps.gz>

Franz Baader, Bernhard Ganter, Ulrike Sattler, and Baris Sertkaya: **Completing Description Logic Knowledge Bases using Formal Concept Analysis.** LTCS-06-02, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2006. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BGSS-LTCS-06-02>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BGSS-LTCS-06-02>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2006/BGSS-LTCS-06-02.pdf>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2006/BGSS-LTCS-06-02.ps.gz>

H. Liu, C. Lutz, M. Milicic, and F. Wolter: **Description Logic Actions with general TBoxes: a Pragmatic Approach**. LTCS-06-03, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2006. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#LiLuMiWo-LTCS-06-03>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#LiLuMiWo-LTCS-06-03>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2006/LiLuMiWo-LTCS-06-03.pdf>

F. Baader, J. Hladik, and R. Penaloza: **PSPACE Automata with Blocking for Description Logics**. LTCS-06-04, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2006. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaHlaPen-LTCS-06>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaHlaPen-LTCS-06>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2006/BaaHlaPen-LTCS-0604.pdf>

Rafael Penaloza: **Pinpointing in Tableaux**. LTCS-06-05, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2006. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Penaloza-LTCS-06-05>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Penaloza-LTCS-06-05>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2006/Penaloza-LTCS-06-05.pdf>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2006/Penaloza-LTCS-06-05.ps.gz>

Franz Baader and Rafael Penaloza: **Axiom Pinpointing in General Tableaux**. LTCS-07-01, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2006. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderPenaloza-LTCS-07-01>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaderPenaloza-LTCS-07-01>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2007/BaaderPenaloza-LTCS-07-01.pdf>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2007/BaaderPenaloza-LTCS-07-01.ps.gz>

2005

F. Baader, S. Brandt, and C. Lutz: **Pushing the EL Envelope**. LTCS-05-01, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2005. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderBrandtLutz-LTCS-05-01>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaderBrandtLutz-LTCS-05-01>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2005/BaaderBrandtLutz-LTCS-05-01.ps.gz>

F. Baader, M. Milicic, C. Lutz, U. Sattler, and F. Wolter: **Integrating Description Logics and Action Formalisms for Reasoning about Web Services**. LTCS-05-02, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2005. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BMLSW-LTCS-05-02>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BMLSW-LTCS-05-02>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2005/BMLSW-LTCS-05-02.ps.gz>

C. Lutz, D. Walther, and F. Wolter: **Quantitative Temporal Logics: PSpace and below**. LTCS-05-03, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2005. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#LutzWaltherWolter-LTCS-05-03>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#LutzWaltherWolter-LTCS-05-03>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2005/LutzWaltherWolter-LTCS-05-03.ps.gz>

Franz Baader and Silvio Ghilardi: **Connecting Many-Sorted Theories**. LTCS-05-04, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2005. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderGhilardiLTCS-05-04>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaderGhilardiLTCS-05-04>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2005/BaaderGhilardiLTCS-05-04.ps.gz>

C. Lutz: **PDL with Intersection and Converse is Decidable**. LTCS-05-05, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2005. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Lutz-LTCS-05-05>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Lutz-LTCS-05-05>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2005/Lutz-LTCS-05-05.ps.gz>

P. Bonatti, C. Lutz, and F. Wolter: **Expressive Non-Monotonic Description Logics Based on Circumscription**. LTCS-05-06, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2005. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BonattiLutzWolter-LTCS-05-06>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BonattiLutzWolter-LTCS-05-06>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2005/BonattiLutzWolter-LTCS-05-06.ps.gz>

C. Lutz and M. Milicic: **A Tableau Algorithm for DLs with Concrete Domains and GCIs**. LTCS-05-07, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2005. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#LutzMilicic-LTCS-05-07>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#LutzMilicic-LTCS-05-07>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2005/LutzMilicic-LTCS-05-07.ps.gz>

Franz Baader, Carsten Lutz, Eldar Karabaev, and Manfred Theißen: **A New n -ary Existential Quantifier in Description Logics**. LTCS-05-08, Chair for Automata

Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2005. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderEtAl-LTCS-05-08>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaderEtAl-LTCS-05-08>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2005/BaaderEtAl-LTCS-05-08.pdf>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2005/BaaderEtAl-LTCS-05-08.ps.gz>

C. Lutz: **Complexity and Succinctness of Public Announcement Logic**. LTCS-05-09, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2005. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Lutz-LTCS-05-09>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Lutz-LTCS-05-09>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2005/Lutz-LTCS05-09.ps.gz>

H. Liu, C. Lutz, M. Milicic, and F. Wolter: **Updating Description Logic ABoxes**. LTCS-05-10, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2005. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#LiLuMiWo-LTCS-05-10>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#LiLuMiWo-LTCS-05-10>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2005/LiLuMiWo-LTCS-05-10.ps.gz>

2004

B. Morawska: **A nice Cycle Rule for Goal-Directed E -Unification**. LTCS-04-01, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2004. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Morawska-LTCS-04-01>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Morawska-LTCS-04-01>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2004/Morawska-LTCS-04-01.ps.gz>

F. Baader: **A Graph-Theoretic Generalization of the Least Common Subsumer and the Most Specific Concept in the Description Logic EL**. LTCS-04-02, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2004. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Baader-LTCS-04-02>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Baader-LTCS-04-02>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2004/Baader-LTCS-04-02.ps.gz>

S. Brandt: **Reasoning in \mathcal{ELH} w.r.t. General Concept Inclusion Axioms**. LTCS-04-03, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2004. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Brandt-LTCS-04-03>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Brandt-LTCS-04-03>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2004/Brandt-LTCS-04-03.pdf>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2004/Brandt-LTCS-04-03.ps.gz>

S. Brandt: **Subsumption and Instance Problem in \mathcal{ELH} w.r.t. General TBoxes**. LTCS-04-04, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2004. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Brandt-LTCS-04-04>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Brandt-LTCS-04-04>
Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2004/Brandt-LTCS-04-04.pdf>

C. Lutz and F. Wolter: **Modal Logics of Topological Relations**. LTCS-04-05, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2004. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#LutzWolter-LTCS-04-05>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#LutzWolter-LTCS-04-05>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2004/LutzWolter-LTCS-04-05.ps.gz>

C. Lutz and M. Milicic: **Description Logics with Concrete Domains and Func-**

tional Dependencies. LTCS-04-06, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2004. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#LutzMilicic-LTCS-04-06>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#LutzMilicic-LTCS-04-06>

Paper (PDF): <http://lat.inf.tu-dresden.de/research/./data/reports/2004/LutzMilicic-LTCS-04-06.pdf>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2004/LutzMilicic-LTCS-04-06.ps.gz>

2003

S. Brandt, A.-Y. Turhan, and R. Küsters: **Foundations of non-standard Inferences for Description Logics with transitive Roles and Role Hierarchies.** 03-02, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2003.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BrTuKu-LTCS-03-02>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BrTuKu-LTCS-03-02>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2003/BrTuKu-LTCS-03-02.ps.gz>

F. Baader: **The Instance Problem and the Most Specific Concept in the Description Logic \mathcal{EL} w.r.t. Terminological Cycles with Descriptive Semantics.** LTCS-03-01, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2003. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Baader-LTCS-03-01>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Baader-LTCS-03-01>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2003/Baader-LTCS-03-01.ps.gz>

B. Morawska: **Completeness of E -unification with eager Variable Elimination.** LTCS-03-03, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2003. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Morawska-LTCS-03-03>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Morawska-LTCS-03-03>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2003/Morawska-LTCS-03-03.ps.gz>

C. Lutz and D. Walther: **PDL with Negation of Atomic Programs**. LTCS-03-04, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2003. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#LuWa-LTCS-03-04>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#LuWa-LTCS-03-04>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2003/LuWa-LTCS-03-04.ps.gz>

F. Baader, Silvio Ghilardi, and Cesare Tinelli: **A New Combination Procedure for the Word Problem that Generalizes Fusion Decidability Results in Modal Logics**. LTCS-03-05, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2003. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaGiTiLTCS-03-05>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaGiTiLTCS-03-05>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2003/BaGiTiLTCS-03-05.ps.gz>

2002

S. Brandt and A.-Y. Turhan: **An Approach for Optimizing ALE-Approximation of ALC-Concepts**. 02-03, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2002. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BrTu-LTCS-02>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BrTu-LTCS-02>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2002/BrandtTurhan-LTCS-02-03.ps.gz>

C. Lutz: **Reasoning about Entity Relationship Diagrams with Complex At-**

tribute Dependencies. LTCS-02-01, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 2002. See <http://www-iti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Lutz-LTCS-02-01>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Lutz-LTCS-02-01>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2002/Lutz-LTCS-02-01.ps.gz>

F. Baader: **Terminological Cycles in a Description Logic with Existential Restrictions.** LTCS-02-02, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2002. See <http://lat.inf.tu-dresden.de/research/reports.html>.

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

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

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2002/Baader-LTCS-02-02.ps.gz>

C. Lutz, C. Areces, I. Horrocks, and U. Sattler: **Keys, Nominals, and Concrete Domains.** LTCS-02-04, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2002. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#LutAreHorSat-LTCS-02-04>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#LutAreHorSat-LTCS-02-04>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2002/LutAreHorSat-LTCS-02-04.ps.gz>

C. Lutz, U. Sattler, and L. Tendera: **The Complexity of Finite Model Reasoning in Description Logics.** LTCS-02-05, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2002. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#LutzSattlerTendera-LTCS-02-05>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#LutzSattlerTendera-LTCS-02-05>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2002/LutzSattlerTendera-LTCS-02-05.ps.gz>

I. Horrocks and U. Sattler: **Decidability of SHIQ with Complex Role Inclusion Axioms.** LTCS-02-06, Chair for Automata Theory, Institute for Theoretical Com-

puter Science, Dresden University of Technology, Germany, 2002. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#HorrocksSattler-LTCS-02-06>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#HorrocksSattler-LTCS-02-06>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2002/HorrocksSattler-LTCS-02-06.ps.gz>

F. Baader: **Least Common Subsumers, Most Specific Concepts, and Role-Value-Maps in a Description Logic with Existential Restrictions and Terminological Cycles.** LTCS-02-07, Chair for Automata Theory, Institute for Theoretical Computer Science, Dresden University of Technology, Germany, 2002. See <http://lat.inf.tu-dresden.de/research/reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Baader-LTCS-02-07>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Baader-LTCS-02-07>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2002/Baader-LTCS-02-07.ps.gz>

2001

F. Baader, S. Brandt, and R. Küsters: **Matching under Side Conditions in Description Logics.** 01-02, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 2001. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderBrandt+-LTCS-01-02>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaderBrandt+-LTCS-01-02>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2001/BaaderBrandt+-LTCS-01-02.ps.gz>

F. Baader and S. Tobies: **The Inverse Method Implements the Automata Approach for Modal Satisfiability.** 01-03, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 2001. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderTobies-LTCS-01-03>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaderTobies-LTCS-01-03>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2001/BaaderTobies-LTCS-01-03.ps.gz>

F. Baader and R. Küsters: **Unification in a Description Logic with Transitive Closure of Roles**. 01-05, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 2001. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderKuesters-LTCS-01-05>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaderKuesters-LTCS-01-05>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2001/BaaderKuesters-LTCS-01-05.ps.gz>

S. Brandt, R. Küsters, and A.-Y. Turhan: **Approximation and Difference in Description Logics**. 01-06, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 2001.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BrandtKuesters+-LTCS-01-06>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BrandtKuesters+-LTCS-01-06>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2001/BrandtKuesters+-LTCS-01-06.ps.gz>

C. Lutz, H. Sturm, F. Wolter, and M. Zakharyashev: **A Tableau Calculus for Temporal Description Logic: The Constant Domain Case**. LTCS-01-01, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 2001. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#LuStuWoZa-LTCS-01-01>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#LuStuWoZa-LTCS-01-01>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2001/LuStuWoZa-LTCS-01-01.ps.gz>

C. Lutz, U. Sattler, and F. Wolter: **Modal Logic and the two-variable fragment**. LTCS-01-04, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 2001. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#LutzSattlerWolter-LTCS-01-04>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#LutzSattlerWolter-LTCS-01-04>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2001/LutzSattlerWolter-LTCS-01-04.ps.gz>

C. Lutz: **Adding Numbers to the *SHIQ* Description Logic—First Results**.

LTCS-01-07, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 2001. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Lutz-LTCS-01-07>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Lutz-LTCS-01-07>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2001/Lutz-LTCS-01-07.ps.gz>

I. Horrocks and U. Sattler: **Optimised Reasoning for SHIQ**. LTCS-01-08, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 2001. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#HorrocksSattler-LTCS-01-08>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#HorrocksSattler-LTCS-01-08>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2001/HorrocksSattler-LTCS-01-08.ps.gz>

2000

F. Baader, R. Küsters, and R. Molitor: **Rewriting Concepts Using Terminologies – Revisited**. 00-04, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 2000. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderKuestersMolitor-LTCS-00-04>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaderKuestersMolitor-LTCS-00-04>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2000/BaaderKuestersMolitor-LTCS-00-04.ps.gz>

R. Küsters and R. Molitor: **Computing Most Specific Concepts in Description Logics with Existential Restrictions**. 00-05, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 2000.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#KuestersMolitor-LTCS-00-05>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#KuestersMolitor-LTCS-00-05>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2000/KuestersMolitor-LTCS-00-05.ps.gz>

R. Küsters and R. Molitor: **Computing Least Common Subsumers in ALEN**. 00-07, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 2000. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#KuestersMolitor-LTCS-00-07>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#KuestersMolitor-LTCS-00-07>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2000/KuestersMolitor-LTCS-00-07.ps.gz>

C. Lutz: **NExpTime-complete Description Logics with Concrete Domains**. LTCS-00-01, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 2000. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Lutz-LTCS-00-01>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Lutz-LTCS-00-01>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2000/Lutz-LTCS-00-01.ps.gz>

C. Lutz and U. Sattler: **The Complexity of Reasoning with Boolean Modal Logics (Extended Version)**. LTCS-00-02, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 2000. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Lutz-Sattler-LTCS-00-02>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Lutz-Sattler-LTCS-00-02>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2000/LutzSattler-LTCS-00-02.ps.gz>

C. Hirsch and S. Tobies: **A Tableaux Algorithm for the Clique Guarded Fragment, Preliminary Version**. LTCS-00-03, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 2000. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Hirsch-Tobies-LTCS-00-03>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2000/HirschTobies-LTCS-2000.ps.gz>

C. Lutz: **Interval-based Temporal Reasoning with General TBoxes**. LTCS-00-06, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 2000. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Lutz-LTCS-00-06>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Lutz-LTCS-00-06>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/2000/Lutz-LTCS-00-06.ps.gz>

1999

F. Baader, R. Küsters, and R. Molitor: **Rewriting Concepts Using Terminologies – Revisited**. 99-12, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1999. Please refer to the revised version LTCS-Report 00-04.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderKuestersMolitor-LTCS-99-12>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaderKuestersMolitor-LTCS-99-12>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1999/BaaderKuestersMolitor-LTCS-99-12.ps.gz>

C. Lutz: **The Complexity of Reasoning with Concrete Domains (Revised Version)**. LTCS-99-01, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1999. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Papers.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Lutz-LTCS-99-01>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Lutz-LTCS-99-01>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1999/Lutz-LTCS-99-01.ps.gz>

M.-S. Hacid and C. Rigotti: **Representing and Reasoning on Conceptual Queries Over Image Databases**. LTCS-99-02, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1999. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Papers.html>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Hacid-Rigotti-LTCS-99>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Hacid-Rigotti-LTCS-99>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1999/HacidRigotti-LTCS-99-02.ps.gz>

C. Declair, M.-S. Hacid, and J. Kouloumdjian: **A Database Approach for Modeling and Querying Video Data**. LTCS-99-03, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1999. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Papers.html>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Decleir-Hacid-Kouloumdjian-LTCS-99>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Decleir-Hacid-Kouloumdjian-LTCS-99>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1999/DecleirHacid+-LTCS-99-03.ps.gz>

C. Lutz: **On the Complexity of Terminological Reasoning**. LTCS-99-04, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1999. This report is superceded by the LTCS-00-01 technical report and my LPAR'99 paper.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Lutz-LTCS-99-04>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Lutz-LTCS-99-04>

S. Tobies: **A NEXPTIME-complete Description Logic Strictly Contained in C^2** . LTCS-99-05, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1999. An abridged version appeared at CSL-99.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Tobies-LTCS-99-05>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Tobies-LTCS-99-05>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1999/Tobies-LTCS-99-05.ps.gz>

F. Baader and R. Molitor: **Rewriting Concepts using Terminologies**. LTCS-99-06, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1999. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderMolitor-LTCS-99-06>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaderMolitor-LTCS-99-06>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1999/BaaderMolitor-LTCS-99-06.ps.gz>

F. Baader and R. Küsters: **Matching in Description Logics with Existential Restrictions**. LTCS-99-07, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1999. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderKuesters-LTCS-99-07-1999>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaderKuesters-LTCS-99-07-1999>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1999/BaaderKuesters-LTCS-99-07-1999.ps.gz>

I. Horrocks, U. Sattler, and S. Tobies: **A Description Logic with Transitive and Converse Roles, Role Hierarchies and Qualifying Number Restrictions**. LTCS-99-08, LuFG Theoretical Computer Science, RWTH Aachen, 1999. Revised version. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#HoSatTob-LTCS-99-08>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#HoSatTob-LTCS-99-08>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1999/HorrocksSattlerTobies-LTCS-99-08.ps.gz>

S. Tobies: **A PSpace-algorithm for ALCQI-satisfiability**. LTCS-99-09, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1999. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Papers.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Tobies-LTCS-99-09>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Tobies-LTCS-99-09>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1999/Tobies-LTCS-99-09.ps.gz>

S. Tobies: **PSpace Reasoning for DLs with Qualifying Number Restrictions**. LTCS-99-11, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1999. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Papers.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Tobies-LTCS-99-11>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Tobies-LTCS-99-11>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1999/Tobies-LTCS-99-11.ps.gz>

F. Baader and R. Küsters: **Matching Concept Descriptions with Existential Restrictions Revisited**. LTCS-99-13, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1999. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderKuesters-LTCS-99-13-1999>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaderKuesters-LTCS-99-13-1999>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1999/BaaderKuesters-LTCS-99-13-1999.ps.gz>

I. Horrocks and S. Tobies: **Optimisation of Terminological Reasoning**. LTCS-99-14, LuFG Theoretical Computer Science, RWTH Aachen, 1999. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#HorrocksTobies-LTCS-99-14>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#HorrocksTobies-LTCS-99-14>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1999/HorrocksTobies-LTCS-99-14.ps.gz>

I. Horrocks, U. Sattler, S. Tessaris, and S. Tobies: **Query Containment Using a DLR ABox**. LTCS-99-15, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1999. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#HorrocksSattler+-LTCS-99-15>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#HorrocksSattler+-LTCS-99-15>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1999/HorrocksSattler+-LTCS-99-15.ps.gz>

1998

C.B. Tresp and R. Molitor: **A Description Logic for Vague Knowledge**. LTCS-98-01, LuFg Theoretical Computer Science, RWTH Aachen, Germany, 1998. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#TrespMolitor-LTCS-98-01>
Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#TrespMolitor-LTCS-98-01>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1998/TrespMolitor-LTCS-98-01.ps.gz>

F. Baader and U. Sattler: **Description Logics with Aggregates and Concrete Domains, Part II (extended)**. LTCS-98-02, LuFg Theoretical Computer Science, RWTH Aachen, Germany, 1998.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaSat98>
Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1998/BaaderSattler-LTCS-98-02.ps.gz>

R. Molitor: **Structural Subsumption for \mathcal{ALN}** . LTCS-98-03, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1998.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Molitor-LTCS-98-03>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1998/Molitor-LTCS-98-03.ps.gz>

F. Baader, R. Küsters, and R. Molitor: **Structural Subsumption Considered from an Automata Theoretic Point of View**. LTCS-98-04, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1998. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderKuestersMolitor-LTCS-98-04>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaderKuestersMolitor-LTCS-98-04>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1998/BaaderKuestersMolitor-LTCS-98-04.ps.gz>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1998/BaaderKuestersMolitor-LTCS-98-04-1998.ps.gz>

I. Horrocks and U. Sattler: **A Description Logic with Transitive and Converse Roles and Role Hierarchies**. LTCS-98-05, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1998.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#HoSat98>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1998/HorrocksSattler-LTCS-98-05.ps.gz>

F. Baader and R. Küsters: **Computing the least common subsumer and the most specific concept in the presence of cyclic ALN-concept descriptions**. LTCS-98-06, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1998.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderKuesters-LTCS-98-06-1998>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaderKuesters-LTCS-98-06-1998>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1998/BaaderKuesters-LTCS-98-06-1998.ps.gz>

F. Baader and P. Narendran: **Unification of Concept Terms in Description Logics: Revised Version**. LTCS-98-07, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1998.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Baader-Narendran-LTCS-98>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Baader-Narendran-LTCS-98>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1998/Baader-Narendran-LTCS-98.ps.gz>

I. Horrocks, U. Sattler, and S. Tobies: **A PSpace-algorithm for deciding $\mathcal{ALCN}\mathcal{I}_{R^+}$ -satisfiability**. LTCS-98-08, LuFG Theoretical Computer Science, RWTH Aachen, 1998.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#HoSatTob98>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#HoSatTob98>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1998/HorrocksSattlerTobies-LTCS-98-08.ps.gz>

F. Baader, R. Küsters, and R. Molitor: **Computing Least Common Subsumers in Description Logics with Existential Restrictions**. LTCS-98-09, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1998. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Papers.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderKuesters+-LTCS-98-09>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaaderKuesters+-LTCS-98-09>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1998/BaaderKuestersMolitor-LTCS-98-09.ps.gz>

F. Baader, R. Molitor, and S. Tobies: **The Guarded Fragment of Conceptual Graphs**. LTCS-98-10, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1998. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Papers.html>

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Baader-Molitor-Tobies-LTCS-98a>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Baader-Molitor-Tobies-LTCS-98a>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1998/BaaderMolitorTobies-LTCS-98-10.ps.gz>

F. Baader, R. Molitor, and S. Tobies: **On the Relation between Description Logics and Conceptual Graphs**. LTCS-98-11, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1998. See <http://www-lti.informatik.rwth-aachen.de/Forschung/Reports.html>.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderMolitorTobies-LTCS-98-11>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1998/BaaderMolitorTobies-LTCS-98-11.ps.gz>

1997

F. Baader and U. Sattler: **Description Logics with Aggregates and Concrete Domains**. LTCS-97-01, LuFg Theoretical Computer Science, RWTH Aachen, Germany, 1997. An abridged version has appeared in the Proceedings of the International Workshop on Description Logics 97.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaSat97>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#BaSat97>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1997/BaaSat-LTCS97-01.ps.gz>

F. Baader and P. Narendran: **Unification of Concept Terms in Description Logics**. LTCS-97-02, LuFg Theoretical Computer Science, RWTH Aachen, Germany, 1997.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Baader-Narendran-LTCS-97>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Baader-Narendran-LTCS-97>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1997/Baader-Narendran-LTCS-97.ps.gz>

F. Baader: **On the Complexity of Boolean Unification**. LTCS-97-03, LuFg Theoretical Computer Science, RWTH Aachen, Germany, 1997.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Baader-LTCS-97-03>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Baader-LTCS-97-03>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1997/Baader-LTCS-97-03.ps.gz>

R. Küsters: **Characterizing the semantics of terminological cycles in \mathcal{ALN} using finite automata**. LTCS-97-04, LuFg Theoretical Computer Science, RWTH Aachen, Germany, 1997.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Kuesters-LTCS-97-04>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Kuesters-LTCS-97-04>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1997/Kuesters-LTCS-97-04.ps.gz>

M. S. Hacid, P. Marcel, and C. Rigotti: **A rule based data manipulation language for OLAP systems**. LTCS-97-05, LuFg Theoretical Computer Science, RWTH Aachen,

1997. A short version has appeared in the Proceedings of the 5th International Conference on Deductive and Object-Oriented Databases (DOOD'97), Montreux, Switzerland

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Hacid&a197a>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Hacid&a197a>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1997/Hacid-LTCS-97-05.ps.gz>

1996

F. Baader and C. Tinelli: **A New Approach for Combining Decision Procedures for the Word Problem, and Its Connection to the Nelson-Oppen Combination Method**. LTCS-96-01, LuFg Theoretical Computer Science, RWTH Aachen, 1996. An abridged version has appeared in Proc. CADE'97, Springer LNAI 1249.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Baader-Tinelli-LTCS-96>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Baader-Tinelli-LTCS-96>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1996/Baader-Tinelli-LTCS-96.ps.gz>

F. Baader and U. Sattler: **Number Restrictions on Complex Roles in Description Logics**. LTCS-96-02, LuFg Theoretical Computer Science, RWTH Aachen, 1996. An abridged version has appeared in the Proceedings of the Fifth International Conference on Knowledge Representation and Reasoning, 1996, Cambridge, Massachusetts.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderSattler-LTCS-96-02>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1996/BaaderSattler-LTCS2.ps.gz>

F. Baader and U. Sattler: **Description Logics with Symbolic Number Restrictions**. LTCS-96-03, LuFg Theoretical Computer Science, RWTH Aachen, 1996. An abridged version has appeared in the Proceedings of the 12th European Conference on Artificial Intelligence, 1996, Budapest, Hungary.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#BaaderSattler-LTCS-96-03>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1996/BaaderSattler-LTCS3.ps.gz>

S. Kepser and J. Richts: **Optimisation Techniques for Combining Constraint Solvers**. LTCS-96-04, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1996.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#KepserRichts-LTCS-96-04>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#KepserRichts-LTCS-96-04>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1996/LTCS-Rep-96-04.ps.gz>

F. Baader: **Combination of Compatible Reduction Orderings that are Total on Ground Terms**. LTCS-96-05, LuFG Theoretical Computer Science, RWTH Aachen, Germany, 1996.

BibTeX entry: <http://lat.inf.tu-dresden.de/research/reports-bib.html#Baader-LTCS-96>

Abstract: <http://lat.inf.tu-dresden.de/research/reports-abs.html#Baader-LTCS-96>

Paper (PS): <http://lat.inf.tu-dresden.de/research/./data/reports/1996/Baader-LTCS-96.ps.gz>