



# Technical Reports

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March 21, 2023

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 <https://tu-dresden.de/ing/informatik/thi/lat>, where recent versions of this document are available in PDF format or as web pages.

## 2022

Franz Baader, Patrick Koopmann, Francesco Kriegel, and Adrian Nuradiansyah: **Optimal ABox Repair w.r.t. Static  $\mathcal{EL}$  TBoxes: from Quantified ABoxes back to ABoxes (Extended Version)**. LTCS-Report 22-01, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2022.

BibTeX Entry: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/technische-berichte#BaKoKrNu-LTCS-22-01:bibtex>

Abstract: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/technische-berichte#BaKoKrNu-LTCS-22-01:abstract>

PDF File: <https://lat.inf.tu-dresden.de/research/reports/2022/BaKoKrNu-LTCS-22-01.pdf>

DOI: <https://doi.org/10.25368/2022.65>

Franz Baader and Francesco Kriegel: **Pushing Optimal ABox Repair from  $\mathcal{EL}$  Towards More Expressive Horn-DLs (Extended Version)**. LTCS-Report 22-02, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2022.

BibTeX Entry: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/technische-berichte#BaKr-LTCS-22-02:bibtex>

Abstract: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/technische-berichte#BaKr-LTCS-22-02:abstract>

PDF File: <https://lat.inf.tu-dresden.de/research/reports/2022/BaKr-LTCS-22-02.pdf>

DOI: <https://doi.org/10.25368/2022.131>

Erratum: <http://lat.inf.tu-dresden.de/~francesco/KR2022-erratum.pdf>

Francesco Kriegel: **Optimal Fixed-Premise Repairs of  $\mathcal{EL}$  TBoxes (Extended Version)**. LTCS-Report 22-04, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2022.

BibTeX Entry: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/technische-berichte#Kr-LTCS-22-04:bibtex>

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PDF File: <https://lat.inf.tu-dresden.de/research/reports/2022/Kr-LTCS-22-04.pdf>

DOI: <https://doi.org/10.25368/2022.321>

## 2021

Franz Baader, Patrick Koopmann, Francesco Kriegel, and Adrian Nuradiansyah: **Computing Optimal Repairs of Quantified ABoxes w.r.t. Static  $\mathcal{EL}$  TBoxes (Extended Version)**. LTCS-Report 21-01, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2021.

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Franz Baader, Oliver Fernández Gil, and Maryam Rostamigiv: **Restricted Unification in the DL  $\mathcal{FL}_0$  (Extended Version)**. LTCS-Report 21-02, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2021.

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Patrick Koopmann: **Two Ways of Explaining Negative Entailments in Description Logics Using Abduction (Extended Version)**. LTCS-Report 21-03, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, 2021.

BibTeX Entry: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/technische-berichte#Ko-LTCS-21-03:bibtex>

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Franz Baader, Patrick Koopmann, Francesco Kriegel, Adrian Nuradiansyah, and Rafael Peñaloza: **Privacy-Preserving Ontology Publishing: The Case of Quantified ABoxes w.r.t. a Static Cycle-Restricted  $\mathcal{EL}$  TBox (Extended Version)**. LTCS-Report 21-04, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2021.

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## 2020

Franz Baader and Jakub Rydval: **Using Model-Theory to Find  $\omega$ -Admissible Concrete Domains**. LTCS-Report 20-01, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2020.

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Franz Baader and Deepak Kapur: **Deciding the Word Problem for Ground Identities with Commutative and Extensional Symbols**. LTCS-Report 20-02, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2020.

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Manuel Bodirsky, Wied Pakusa, and Jakub Rydval: **Temporal Constraint Satisfaction Problems in Fixed-Point Logic**. LTCS-Report 20-04, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2020.

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Oliver Fernández Gil and Anni-Yasmin Turhan: **Answering Regular Path Queries Under Approximate Semantics in Lightweight Description Logics**. LTCS-Report 20-05, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2020.

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Patrick Koopmann and Jieying Chen: **Deductive Module Extraction for Expressive Description Logics (Extended Version)**. LTCS-Report 20-06, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, 2020.

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Franz Baader, Francesco Kriegel, Adrian Nuradiansyah, and Rafael Peñaloza: **Computing Compliant Anonymisations of Quantified ABoxes w.r.t.  $\mathcal{EL}$  Policies (Extended Version)**. LTCS-Report 20-08, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2020.

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Franz Baader, Francesco Kriegel, Adrian Nuradiansyah, and Rafael Peñaloza: **Computing Safe Anonymisations of Quantified ABoxes w.r.t.  $\mathcal{EL}$  Policies (Extended Version)**. LTCS-Report 20-09, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2020.

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Franz Baader and Jakub Rydval: **An Algebraic View on p-Admissible Concrete Domains for Lightweight Description Logics (Extended Version)**. LTCS-Report 20-10, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2020.

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## 2019

Franz Baader, Francesco Kriegel, and Adrian Nuradiansyah: **Privacy-Preserving Ontology Publishing for  $\mathcal{EL}$  Instance Stores (Extended Version)**. LTCS-Report 19-01, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2019.

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Francesco Kriegel: **Joining Implications in Formal Contexts and Inductive Learning in a Horn Description Logic (Extended Version)**. LTCS-Report 19-02, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2019.

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Patrick Koopmann: **Maybe Eventually? Towards Combining Temporal and Probabilistic Description Logics and Queries (Extended Version)**. LTCS-Report 19-03, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2019.

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Satyadharma Tirtarasa and Benjamin Zarriß: **Projection in a Description Logic of Context with Actions (Extended Version)**. LTCS-Report 19-04, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2019.

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DOI: <https://doi.org/10.25368/2022.253>

Clemens Dubsflaff, Patrick Koopmann, and Anni-Yasmin Turhan: **Ontology-Mediated Probabilistic Model Checking (Extended Version)**. LTCS-Report 19-05, TU Dresden, Dresden, Germany, 2019.

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Christian Alrabbaa, Patrick Koopmann, and Anni-Yasmin Turhan: **Practical Query Rewriting for DL-Lite with Numerical Predicates (Extended Version)**. LTCS-Report 19-06, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2019.

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PDF File: <https://lat.inf.tu-dresden.de/research/reports/2019/AlKoTu-LTCS-19-06.pdf>

DOI: <https://doi.org/10.25368/2022.255>

Stefan Borgwardt and Barbara Morawska: **Finite Herbrand Models for Restricted First-Order Clauses**. LTCS-Report 19-07, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2019.

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Abstract: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/technische-berichte#BoMo-LTCS-19-07:abstract>

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Franz Baader and Clément Théron: **Role-Value Maps and General Concept Inclusions in the Description Logic  $\mathcal{FL}_0$** . LTCS-Report 19-08, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2019.

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Franz Baader and Filippo De Bortoli: **On the Complexity and Expressiveness of Description Logics with Counting**. LTCS-Report 19-09, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2019.

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## 2018

Franz Baader, Francesco Kriegel, Adrian Nuradiansyah, and Rafael Peñaloza: **Repairing Description Logic Ontologies by Weakening Axioms**. LTCS-Report 18-01, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2018.

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Francesco Kriegel: **Terminological Knowledge Acquisition in Probabilistic Description Logic**. LTCS-Report 18-03, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2018.

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Franz Baader, Oliver Fernández Gil, and Maximilian Pensel: **Standard and Non-Standard Inferences in the Description Logic  $\mathcal{FL}_0$  Using Tree Automata**. LTCS-Report 18-04, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2018.

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Patrick Koopmann and Benjamin Zarriß: **On the Complexity of Verifying Timed Golog Programs over Description Logic Actions (Extended Version)**. LTCS-Report 18-06, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2018.

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Patrick Koopmann: **Ontology-Mediated Query Answering for Probabilistic Temporal Data with  $\mathcal{EL}$  Ontologies (Extended Version)**. LTCS-Report 18-07, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2018.

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Patrick Koopmann: **Actions with Conjunctive Queries: Projection, Conflict Detection and Verification**. LTCS-Report 18-08, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2018.

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Clemens Dubschlaff, Patrick Koopmann, and Anni-Yasmin Turhan: **Contextualized Programs for Ontology-Mediated Probabilistic System Analysis**. LTCS-Report 18-09, Chair for Automata Theory, Institute for Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2018.

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Francesco Kriegel: **The Distributive, Graded Lattice of  $\mathcal{EL}$  Concept Descriptions and its Neighborhood Relation (Extended Version)**. LTCS-Report 18-10, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2018.

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Francesco Kriegel: **Learning Description Logic Axioms from Discrete Probability Distributions over Description Graphs (Extended Version)**. LTCS-Report 18-12, Chair of Automata Theory, Institute of Theoretical Computer Science, Technische Universität Dresden, Dresden, Germany, 2018.

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