



Publications

Prof. Dr.-Ing. Franz Baader

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This is the list of publications 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.

2021

Franz Baader, Francesco Kriegel, Adrian Nuradiansyah, and Rafael Peñaloza: **Safety of Quantified ABoxes w.r.t. Singleton \mathcal{EL} Policies**. In *Proceedings of the 36th ACM/SIGAPP Symposium on Applied Computing (SAC 2021)*, 2021. To appear.

BibTeX Entry: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/veroeffentlichungen#BaKrNuPe-SAC2021:bibtex>

Abstract: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/veroeffentlichungen#BaKrNuPe-SAC2021:abstract>

PDF File: <https://lat.inf.tu-dresden.de/research/papers/2021/BaKrNuPe-SAC2021.pdf>

DOI: <https://doi.org/10.1145/3412841.3441961>

Extended Technical Report: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/technische-berichte#BaKrNuPe-LTCS-20-09>

2020

Christian Alrabbaa, Franz Baader, Stefan Borgwardt, Patrick Koopmann, and Alisa Kovtunova: **Finding Small Proofs for Description Logic Entailments: Theory and Practice**. In Elvira Albert and Laura Kovacs, editors, *LPAR-23: 23rd International Conference on Logic for Programming, Artificial Intelligence and Reasoning*, volume 73 of *EPIC Series in Computing*, pages 32–67. EasyChair, 2020.

BibTeX Entry: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/veroeffentlichungen#AlBaBoKoKo-20:bibtex>

Abstract: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/veroeffentlichungen#AlBaBoKoKo-20:abstract>

PDF File: <https://lat.inf.tu-dresden.de/research/papers/2020/AlBaBoKoKo-20.pdf>

DOI: <https://dx.doi.org/10.29007/nhpp>

Christian Alrabbaa, Franz Baader, Stefan Borgwardt, Patrick Koopmann, and Alisa Kovtunova: **On the Complexity of Finding Good Proofs for Description Logic Entailments.** In *DL 2020: International Workshop on Description Logics, CEUR-WS*. CEUR-WS.org, 2020.

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Christian Alrabbaa, Franz Baader, Raimund Dachsel, Tamara Flemisch, and Patrick Koopmann: **Visualising Proofs and the Modular Structure of Ontologies to Support Ontology Repair.** In *DL 2020: International Workshop on Description Logics, CEUR-WS*. CEUR-WS.org, 2020.

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Christian Alrabbaa, Stefan Borgwardt, Patrick Koopmann, and Alisa Kovtunova: **Finding Proofs for Description Logic Entailments in Practice.** In *Explainable Logic-Based Knowledge Representation (XLoKR 2020)*, 2020.

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Franz Baader, Bartosz Bednarczyk, and Sebastian Rudolph: **Satisfiability and Query Answering in Description Logics with Global and Local Cardinality Constraints.** In *Proceedings of the 24th European Conference on Artificial Intelligence (ECAI 2020)*, volume 325 of *Frontiers in Artificial Intelligence and Applications*, pages 616–623. IOS Press, 2020.

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Franz Baader, Stefan Borgwardt, Patrick Koopmann, Ana Ozaki, and Veronika Thost: **Metric Temporal Description Logics with Interval-Rigid Names.** *ACM Transactions on Computational Logic*, 21(4):30:1–30:46, 2020.

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Franz Baader, Stefan Borgwardt, Patrick Koopmann, Veronika Thost, and Anni-Yasmin Thurhan: **Semantic Technologies for Situation Awareness.** *KI – Künstliche Intelligenz*, 34(4):291–301, 2020.

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Franz Baader and Filippo De Bortoli: **Description Logics That Count, and What They Can and Cannot Count.** In Laura Kovacs, Konstantin Korovin, and Giles Rege, editors, *ANDREI-60. Automated New-era Deductive Reasoning Event in Iberia*, volume 68 of *EPiC Series in Computing*, pages 1–25. EasyChair, 2020.

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Franz Baader and Filippo De Bortoli: **Description Logics that Count, and What They Can and Cannot Count (Extended Abstract)**. In Stefan Borgwardt and Thomas Meyer, editors, *Proceedings of the 33rd International Workshop on Description Logics (DL'20)*, volume 2663 of *CEUR Workshop Proceedings*. Online, CEUR-WS, 2020.

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Franz Baader, Patrick Koopmann, and Cesare Tinelli: **First Results on How to Certify Subsumptions Computed by the EL Reasoner ELK Using the Logical Framework with Side Conditions**. In *DL 2020: International Workshop on Description Logics, CEUR-WS*. CEUR-WS.org, 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**. In Jeff Z. Pan, Valentina A. M. Tamma, Claudia d'Amato, Krzysztof Janowicz, Bo Fu, Axel Polleres, Oshani Seneviratne, and Lalana Kagal, editors, *Proceedings of the 19th International Semantic Web Conference (ISWC 2020), Part I, Athens, Greece, November 2-6, 2020*, volume 12506 of *Lecture Notes in Computer Science*, pages 3–20. Springer, 2020.

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©Springer-Verlag: <https://www.springer.de/comp/lncs/index.html>

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Franz Baader, Pavlos Marantidis, Antoine Mottet, and Alexander Okhotin: **Extensions of Unification Modulo $ACUI$** . *Mathematical Structures in Computer Science*, 30(6):597–626, 2020.

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Franz Baader and Jakub Rydval: **Description Logics with Concrete Domains and General Concept Inclusions Revisited**. In Viorica Sofronie-Stokkermans and Nicolas Peltier, editors, *Proceedings of the International Joint Conference on Automated Reasoning (IJCAR 2020)*, volume 12166 of *Lecture Notes in Computer Science*, pages 413–431. Springer, 2020.

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Franz Baader and Clément Théron: **Role-Value Maps and General Concept Inclusions in the Minimal Description Logic with Value Restrictions – or Revisiting Old Skeletons in the DL Cupboard**. *KI – Künstliche Intelligenz*, 34(3):291–301, 2020.

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PDF File: <https://lat.inf.tu-dresden.de/research/papers/2020/BoRy-LICS20.pdf>

PDF File (Extended Technical Report): <https://lat.inf.tu-dresden.de/research/papers/2020/BoRy-LICS20.long.pdf>

DOI: <https://dx.doi.org/10.1145/3373718.3394750>

Stefan Borgwardt, Walter Forkel, and Alisa Kovtunova: **Finding New Diamonds: Temporal Minimal-World Query Answering over Sparse ABoxes (Extended Abstract)**. In Stefan Borgwardt and Thomas Meyer, editors, *Proceedings of the 33rd International Workshop on Description Logics (DL 2020) co-located with the 17th International Conference on Principles of Knowledge Representation and Reasoning (KR 2020), Online Event [Rhodes, Greece], September 12th to 14th, 2020*, volume 2663 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2020.

BibTeX Entry: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/veroeffentlichungen#BorgwardtFK20:bibtex>

Abstract: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/veroeffentlichungen#BorgwardtFK20:abstract>

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Stefan Borgwardt, Anke Hirsch, Alisa Kovtunova, and Frederik Wiehr: **In the Eye of the Beholder: Which Proofs are Best?**. In Stefan Borgwardt and Thomas Meyer, editors, *Proceedings of the 33rd International Workshop on Description Logics (DL 2020) co-located with the 17th International Conference on Principles of Knowledge Representation and Reasoning (KR 2020), Online Event [Rhodes, Greece], September 12th to 14th, 2020*, volume 2663 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2020.

BibTeX Entry: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/veroeffentlichungen#BorgwardtHKW20:bibtex>

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Abstract: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/veroeffentlichungen#XLoKR-BestProofs:abstract>

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Clemens Dubslaff, Patrick Koopmann, and Anni-Yasmin Turhan: **Give Inconsistency a Chance: Semantics for Ontology-Mediated Verification**. In *DL 2020: International Workshop on Description Logics, CEUR-WS*. CEUR-WS.org, 2020.

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BibTeX Entry: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/veroeffentlichungen#FengCFQ-TOCL-20:bibtex>

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Patrick Koopmann: **LETHE: Forgetting and Uniform Interpolation for Expressive Description Logics**. *KI - Künstliche Intelligenz*, 2020.

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Patrick Koopmann and Jieying Chen: **Deductive Module Extraction for Expressive Description Logics**. In Christian Bessiere, editor, *Proceedings of the Twenty-Ninth International Joint Conference on Artificial Intelligence, IJCAI-20*, pages 1636–1643. International Joint Conferences on Artificial Intelligence Organization, 7 2020. Main track

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Adrian Nuradiansyah: **Reasoning in Description Logic Ontologies for Privacy Management.** *KI - Künstliche Intelligenz*, 2020.

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Maximilian Pensel: **A Lightweight Defeasible Description Logic in Depth - Quantification in Rational Reasoning and Beyond.** *KI - Künstliche Intelligenz*, 2020.

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