



## Publications

Prof. Dr.-Ing. Franz Baader

May 8, 2023

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.

### 2023

Franz Baader: **Optimal Repairs in Ontology Engineering as Pseudo-Contractions in Belief Change**. In *Proceedings of the 38th Annual ACM Symposium on Applied Computing (SAC '23), March 27–31, 2023, Tallinn, Estonia*. Association for Computing Machinery, 2023. To appear

BibTeX Entry: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/veroeffentlichungen#Baader-SAC2023:bibtex>

Abstract: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/veroeffentlichungen#Baader-SAC2023:abstract>

PDF File: <https://lat.inf.tu-dresden.de/research/papers/2023/Baader-SAC2023.pdf>

Franz Baader, Francesco Kriegel, and Adrian Nuradiansyah: **Treating Role Assertions as First-class Citizens in Repair and Error-tolerant Reasoning**. In *Proceedings of the 38th Annual ACM Symposium on Applied Computing (SAC '23), March 27–31, 2023, Tallinn, Estonia*. Association for Computing Machinery, 2023. (to appear)

BibTeX Entry: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/veroeffentlichungen#BaKrNu-SAC2023:bibtex>

Abstract: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/veroeffentlichungen#BaKrNu-SAC2023:abstract>

PDF File: <https://lat.inf.tu-dresden.de/research/papers/2023/BaKrNu-SAC2023.pdf>

Julián Méndez, Christian Alrabbaa, Patrick Koopmann, Ricardo Langner, Franz Baader, and Raimund Dachsel: **Evonne: A Visual Tool for Explaining Reasoning with OWL Ontologies and Supporting Interactive Debugging**. *Computer Graphics Forum*, 2023.

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Abstract: <https://tu-dresden.de/ing/informatik/thi/lat/forschung/veroeffentlichungen#MEALKOLABADA-CGF23:abstract>

DOI: <https://doi.org/10.1111/cgf.14730>

2022

Christian Alrabbaa, Franz Baader, Stefan Borgwardt, Raimund Dachsetl, Patrick Koopmann, and Julián Méndez: **Evonne: Interactive Proof Visualization for Description Logics (System Description)**. In *Automated Reasoning - 11th International Joint Conference, IJCAR 2022, Lecture Notes in Computer Science*. Springer, 2022.

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PDF File: <https://lat.inf.tu-dresden.de/research/papers/2022/ALBABODAKOME-IJCAR22.pdf>

Extended Version: <https://arxiv.org/abs/2205.09583>

Christian Alrabbaa, Stefan Borgwardt, Tom Frieze, Patrick Koopmann, Julián Méndez, and Alexej Popovič: **Explaining Description Logic Entailments with Eeve and Evonne**. In *Informal Proceedings of the Explainable Logic-Based Knowledge Representation (XLoKR 2022) workshop co-located with the 19th International Conference on Principles of Knowledge Representation and Reasoning (KR 2022), Haifa, Israel, July 31st, 2022*.

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Christian Alrabbaa, Stefan Borgwardt, Tom Frieze, Patrick Koopmann, Julián Méndez, and Alexej Popovič: **On the Eve of True Explainability for OWL Ontologies: Description Logic Proofs with Eeve and Evonne**. In *Proceedings of the 35th International Workshop on Description Logics (DL 2022)*. CEUR-WS.org, 2022.

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Extended Version: <https://arxiv.org/abs/2206.07711>

Christian Alrabbaa, Stefan Borgwardt, Anke Hirsch, Nina Knieriemen, Alisa Kovtunova, Anna Milena Rothermel, and Frederik Wiehr: **In the Head of the Beholder: Comparing Different Proof Representations**. In *Rules and Reasoning - 6th International Joint Conference, RuleML+RR 2022, Virtual, September 26-28, 2022, Proceedings, 2022*.

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DOI: [https://doi.org/10.1007/978-3-031-21541-4\\_11](https://doi.org/10.1007/978-3-031-21541-4_11)

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Christian Alrabbaa, Stefan Borgwardt, Patrick Koopmann, and Alisa Kovtunova: **Finding Good Proofs for Answers to Conjunctive Queries Mediated by Lightweight Ontologies**. In *Proceedings of the 35th International Workshop on Description Logics (DL 2022)*. CEUR-WS.org, 2022.

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Christian Alrabbaa, Stefan Borgwardt, Patrick Koopmann, and Alisa Kovtunova: **Finding Good Proofs for Answers to Conjunctive Queries Mediated by Lightweight Ontologies (Extended Abstract)**. In *Informal Proceedings of the Explainable Logic-Based Knowledge Representation (XLoKR 2022) workshop co-located with the 19th International Conference on Principles of Knowledge Representation and Reasoning (KR 2022), Haifa, Israel, July 31st*. CEUR-WS.org, 2022.

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Franz Baader and Oliver Fernández Gil: **Restricted Unification in the Description Logic  $\mathcal{FL}_{\perp}$** . In David M. Cerna and Barbara Morawska, editors, *Proceedings of the 36th International Workshop on Unification (UNIF 2022)*, 2022.

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Franz Baader and Deepak Kapur: **Deciding the Word Problem for Ground and Strongly Shallow Identities w.r.t. Extensional Symbols**. *Journal of Automated Reasoning*, 66(3):301–329, 2022.

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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**. In *19th Extended Semantic Web Conference, ESWC 2022, Hersonissos, Greece, May 29 – June 2, 2022, Proceedings*, volume 13261 of *Lecture Notes in Computer Science*, pages 130–146. Springer, 2022.

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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 Abstract)**. In *Proceedings of the 35th International Workshop on Description Logics (DL 2022), Haifa, Israel, August 7–10, 2022, CEUR Workshop Proceedings*. CEUR-WS.org, 2022.

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Franz Baader, Patrick Koopmann, Friedrich Michel, Anni-Yasmin Turhan, and Benjamin Zarriß: **Efficient TBox Reasoning with Value Restrictions using the  $\mathcal{FL}_o$ wer reasoner**. *Theory and Practice of Logic Programming*, 22(2):162–192, 2022.

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Franz Baader and Francesco Kriegel: **Pushing Optimal ABox Repair from  $\mathcal{EL}$  Towards More Expressive Horn-DLs**. In Gabriele Kern-Isberner, Gerhard Lakemeyer, and Thomas Meyer, editors, *Proceedings of the 19th International Conference on Principles of Knowledge Representation and Reasoning, KR 2022, Haifa, Israel, July 31 – August 5, 2022*, pages 22–32, 2022.

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Franz Baader and Jakub Rydval: **Using Model Theory to Find Decidable and Tractable Description Logics with Concrete Domains**. *Journal of Automated Reasoning*, 66(3):357–407, 2022.

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Stefan Borgwardt, Jörg Hoffmann, Alisa Kovtunova, Markus Krötzsch, Bernhard Nebel, and Marcel Steinmetz: **Expressivity of Planning with Horn Description Logic Ontologies**. In *Proceedings of the AAAI Conference on Artificial Intelligence*, pages 5503–5511, Jun. 2022.

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PDF File (Extended Technical Report): <https://lat.inf.tu-dresden.de/research/papers/2022/BHKKNS-AAAI-22.long.pdf>

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Stefan Borgwardt, Jörg Hoffmann, Alisa Kovtunova, Markus Krötzsch, Bernhard Nebel, and Marcel Steinmetz: **Expressivity of Planning with Horn Description Logic Ontologies (Extended Abstract)**. In *Proceedings of the 35th International Workshop on Description Logics (DL 2022)*. CEUR-WS.org, 2022. (to appear)

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Ernie Chang, Alisa Kovtunova, Stefan Borgwardt, Vera Demberg, Kathryn Chapman, and Hui-Syuan Yeh: **Logic-Guided Message Generation from Raw Real-Time Sensor Data**. In *Proceedings of the 13th Language Resources and Evaluation Conference (LREC'22)*, pages 6899–6908. Marseille, France, European Language Resources Association, 2022.

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Fajar Haifani, Patrick Koopmann, Sophie Touret, and Christoph Weidenbach: **Connection-minimal Abduction in  $\mathcal{EL}$  via Translation to FOL**. In *Automated Reasoning - 11th International Joint Conference, IJCAR 2022, Lecture Notes in Computer Science*. Springer, 2022. (to appear)

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Francesco Kriegel: **Optimal Fixed-Premise Repairs of  $\mathcal{EL}$  TBoxes**. In Ralph Bergmann, Lukas Malburg, Stephanie C. Rodermund, and Ingo J. Timm, editors, *Proceedings of the 45th German Conference on Artificial Intelligence (KI 2022), Virtual in Trier, Germany, September 19–23, 2022*, volume 13404 of *Lecture Notes in Computer Science*, pages 115–130. Springer, 2022.

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Rafael Peñaloza and Anni-Yasmin Turhan: **User-aware Explications of Ontology Consequences: Levelling Technicality**. In Christoph Beierle, Marco Ragni, Kai Sauerwald, Frieder Stolzenburg, and Matthias Thimm, editors, *Proceedings of the 8th Workshop on Formal and Cognitive Reasoning, CEUR, 2022*.

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## 2021

Christian Alrabbaa, Franz Baader, Stefan Borgwardt, Patrick Koopmann, and Alisa Kovtunova: **Finding Good Proofs for Description Logic Entailments Using Recursive Quality Measures**. In André Platzer and Geoff Sutcliffe, editors, *Proceedings of the 28th International Conference on Automated Deduction (CADE-28), July 11–16, 2021, Virtual Event, United States*, volume 12699 of *Lecture Notes in Computer Science*, pages 291–308, 2021.

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