

Journal Publications

- [1] Marijn J. H. Heule, Benjamin Kiesl, and Armin Biere. “Strong Extension-Free Proof Systems”. In: *Journal of Automated Reasoning* (2019).
- [2] Benjamin Kiesl, Martina Seidl, Hans Tompits, and Armin Biere. “Local Redundancy in SAT: Generalizations of Blocked Clauses”. In: *Logical Methods in Computer Science* 14.4 (2018).

Conference Publications

- [3] Benjamin Kiesl, Marijn J.H. Heule, and Armin Biere. “Truth Assignments as Conditional Autarkies”. In: *Proc. of the 17th Symposium on Automated Technology for Verification and Analysis (ATVA 2019)*. 2019.
- [4] Marijn J. H. Heule, Benjamin Kiesl, and Armin Biere. “Encoding Redundancy for Satisfaction-Driven Clause Learning”. In: *Proc. of the 25th Int. Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS 2019)*. **Best Paper Nomination**.
- [5] Marijn J. H. Heule, Benjamin Kiesl, and Armin Biere. “Clausal Proofs of Mutilated Chessboards”. In: *Proc. of the 11th Int. NASA Formal Methods Symposium (NFM 2019)*. 2019.
- [6] Benjamin Kiesl, Adrián Rebola-Pardo, and Marijn J.H. Heule. “Extended Resolution Simulates DRAT”. In: *Proc. of the 9th Int. Joint Conference on Automated Reasoning (IJCAR 2018)*. **Best Paper Award**.
- [7] Marijn J.H. Heule, Benjamin Kiesl, Martina Seidl, and Armin Biere. “PRuning Through Satisfaction”. In: *Proc. of the 13th Haifa Verification Conference (HVC 2017)*. **Best Paper Award**.
- [8] Benjamin Kiesl, Marijn J.H. Heule, and Martina Seidl. “A Little Blocked Literal Goes a Long Way”. In: *Proc. of the 20th Int. Conference on Theory and Applications of Satisfiability Testing (SAT 2017)*.
- [9] Benjamin Kiesl, Martina Seidl, Hans Tompits, and Armin Biere. “Blockedness in Propositional Logic: Are You Satisfied With Your Neighborhood?” In: *Proc. of the 26th Int. Joint Conference on Artificial Intelligence (IJCAI 2017)*.
- [10] Benjamin Kiesl and Martin Suda. “A Unifying Principle for Clause Elimination in First-Order Logic”. In: *Proc. of the 26th Int. Conference on Automated Deduction (CADE-26)*. **Best Paper Award**. 2017.
- [11] Marijn J.H. Heule, Benjamin Kiesl, and Armin Biere. “Short Proofs Without New Variables”. In: *Proc. of the 26th Int. Conference on Automated Deduction (CADE-26)*. **Best Paper Award**. 2017.
- [12] Benjamin Kiesl, Martin Suda, Martina Seidl, Hans Tompits, and Armin Biere. “Blocked Clauses in First-Order Logic”. In: *Proc. of the 21st Int. Conference on Logic for Programming, Artificial Intelligence and Reasoning (LPAR-21)*. 2017.
- [13] Benjamin Kiesl, Martina Seidl, Hans Tompits, and Armin Biere. “Super-Blocked Clauses”. In: *Proc. of the 8th Int. Joint Conference on Automated Reasoning (IJCAR 2016)*.