# Georg Weissenbacher

## List of Publications by Year
## in descending order

Source: https://exaly.com/author-pdf/2463216/publications.pdf

Version: 2024-02-01

46

papers

849

citations

687363

13

h-index

552781

26

g-index

48

all docs

48

docs citations

48

times ranked

585

citing authors

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Preface of the special issue on the Conference on Formal Methods in Computer-Aided Design 2017. Formal Methods in System Design, 2021, 57, 303-304. | 0.8 | 0 |
| 2 | Preface of the special issue on the conference on computer-aided verification 2018. Formal Methods in System Design, 2021, 57, 1. | 0.8 | 0 |
| 3 | Rely-guarantee bound analysis of parameterized concurrent shared-memory programs. Formal Methods in System Design, 2021, 57, 270-302. | 0.8 | 2 |
| 4 | Mutation testing with hyperproperties. Software and Systems Modeling, 2021, 20, 405-427. | 2.7 | 3 |
| 5 | Extracting safe thread schedules from incomplete model checking results. International Journal on Software Tools for Technology Transfer, 2020, 22, 565-581. | 1.9 | 2 |
| 6 | Language Inclusion for Finite Prime Event Structures. Lecture Notes in Computer Science, 2020, , 314-336. | 1.3 | 0 |
| 7 | Multi-linear Strategy Extraction for QBF Expansion Proofs via Local Soundness. Lecture Notes in Computer Science, 2020, , 429-446. | 1.3 | 2 |
| 8 | Model-based, Mutation-driven Test-case Generation Via Heuristic-guided Branching Search. Transactions on Embedded Computing Systems, 2019, 18, 1-28. | 2.9 | 15 |
| 9 | Mutation Testing with Hyperproperties. Lecture Notes in Computer Science, 2019, , 203-221. | 1.3 | 3 |
| 10 | Model-Based Diagnosis with Multiple Observations. , 2019, , . |  | 5 |
| 11 | Extracting Safe Thread Schedules from Incomplete Model Checking Results. Lecture Notes in Computer Science, 2019, , 153-171. | 1.3 | 3 |
| 12 | Randomized testing of distributed systems with probabilistic guarantees. , 2018, 2, 1-28. |  | 23 |
| 13 | A Separation Logic with Data: Small Models and Automation. Lecture Notes in Computer Science, 2018, , 455-471. | 1.3 | 6 |
| 14 | Rely-Guarantee Reasoning for Automated Bound Analysis of Lock-Free Algorithms. , 2018, , . |  | 5 |
| 15 | Preface of the Special Issue in Memoriam Helmut Veith. Formal Methods in System Design, 2017, 51, 267-269. | 0.8 | 1 |
| 16 | Model-based, mutation-driven test case generation via heuristic-guided branching search. , 2017, , . |  | 8 |
| 17 | Dynamic Reductions for Model Checking Concurrent Software. Lecture Notes in Computer Science, 2017, , 246-265. | 1.3 | 6 |
| 18 | Error Invariants for Concurrent Traces. Lecture Notes in Computer Science, 2016, , 370-387. | 1.3 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Labelled Interpolation Systems for Hyper-Resolution, Clausal, and Local Proofs. Journal of Automated Reasoning, 2016, 57, 3-36. | 1.4 | 3 |
| 20 | Abstraction and mining of traces to explain concurrency bugs. Formal Methods in System Design, 2016, 49, 1-32. | 0.8 | 4 |
| 21 | Under-approximating loops in C programs for fast counterexample detection. Formal Methods in System Design, 2015, 47, 75-92. | 0.8 | 14 |
| 22 | Boolean Satisfiability Solvers and Their Applications in Model Checking. Proceedings of the IEEE, 2015, 103, 2021-2035. | 21.3 | 67 |
| 23 | Proving Safety with Trace Automata and Bounded Model Checking. Lecture Notes in Computer Science, 2015, , 325-341. | 1.3 | 7 |
| 24 | Silicon fault diagnosis using sequence interpolation with backbones. , 2014, , . |  | 9 |
| 25 | Incremental bounded software model checking. , 2014, , . |  | 12 |
| 26 | Counterexample to Induction-Guided Abstraction-Refinement (CTIGAR). Lecture Notes in Computer Science, 2014, , 831-848. | 1.3 | 39 |
| 27 | Abstraction and Mining of Traces to Explain Concurrency Bugs. Lecture Notes in Computer Science, 2014, , 162-177. | 1.3 | 14 |
| 28 | Reduction of Resolution Refutations and Interpolants via Subsumption. Lecture Notes in Computer Science, 2014, , 188-203. | 1.3 | 3 |
| 29 | Under-Approximating Loops in C Programs for Fast Counterexample Detection. Lecture Notes in Computer Science, 2013, , 381-396. | 1.3 | 18 |
| 30 | Advanced SAT Techniques for Abstract Argumentation. Lecture Notes in Computer Science, 2013, , 138-154. | 1.3 | 13 |
| 31 | Wolverine: Battling Bugs with Interpolants. Lecture Notes in Computer Science, 2012, , 556-558. | 1.3 | 3 |
| 32 | Interpolant Strength Revisited. Lecture Notes in Computer Science, 2012, , 312-326. | 1.3 | 8 |
| 33 | Parallel Assertions for Architectures with Weak Memory Models. Lecture Notes in Computer Science, 2012, , 254-268. | 1.3 | 0 |
| 34 | SAT-based techniques for determining backbones for post-silicon fault localisation. , 2011, , . |  | 18 |
| 35 | An Interpolating Decision Procedure for Transitive Relations with Uninterpreted Functions. Lecture Notes in Computer Science, 2011, , 150-168. | 1.3 | 8 |
| 36 | Interpolation-Based Software Verification with Wolverine. Lecture Notes in Computer Science, 2011, , 573-578. | 1.3 | 31 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | Verification and falsification of programs with loops using predicate abstraction. Formal Aspects of Computing, 2010, 22, 105-128. | 1.8 | 14 |
| 38 | Interpolant Strength. Lecture Notes in Computer Science, 2010, , 129-145. | 1.3 | 70 |
| 39 | Mutation-Based Test Case Generation for Simulink Models. Lecture Notes in Computer Science, 2010, , 208-227. | 1.3 | 43 |
| 40 | A Survey of Automated Techniques for Formal Software Verification. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2008, 27, 1165-1178. | 2.7 | 237 |
| 41 | Model checking concurrent linux device drivers. , 2007, , . |  | 64 |
| 42 | Lifting Propositional Interpolants to the Word-Level. , 2007, , . |  | 12 |
| 43 | SAT-Based Summarization for Boolean Programs. , 2007, , 131-148. |  | 8 |
| 44 | Lifting Propositional Interpolants to the Word-Level. , 2007, , . |  | 1 |
| 45 | Counterexamples with Loops for Predicate Abstraction. Lecture Notes in Computer Science, 2006, , 152-165. | 1.3 | 21 |
| 46 | RAT Elimination. , 0, , . |  | 0 |