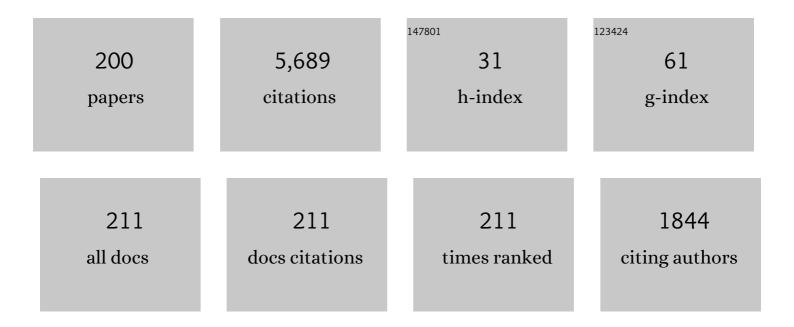
Daniel Kroening

List of Publications by Year in descending order

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| 1 | Active Learning of Abstract System Models from Traces using Model Checking. , 2022, , . | | 0 |
| 2 | Unbounded-Time Safety Verification of Guarded LTI Models with Inputs by Abstract Acceleration. Journal of Automated Reasoning, 2021, 65, 157-203. | 1.4 | 3 |
| 3 | Exposing previously undetectable faults in deep neural networks. , 2021, , . | | 8 |
| 4 | Explanations for Occluded Images. , 2021, , . | | 8 |
| 5 | Automated formal synthesis of provably safe digital controllers for continuous plants. Acta Informatica, 2020, 57, 223-244. | 0.5 | 4 |
| 6 | Learning Concise Models from Long Execution Traces. , 2020, , . | | 10 |
| 7 | A survey of safety and trustworthiness of deep neural networks: Verification, testing, adversarial attack and defence, and interpretability. Computer Science Review, 2020, 37, 100270. | 15.3 | 203 |
| 8 | Explaining Image Classifiers Using Statistical Fault Localization. Lecture Notes in Computer Science, 2020, , 391-406. | 1.3 | 21 |
| 9 | Structural Test Coverage Criteria for Deep Neural Networks. Transactions on Embedded Computing Systems, 2019, 18, 1-23. | 2.9 | 52 |
| 10 | DeepConcolic: Testing and Debugging Deep Neural Networks. , 2019, , . | | 32 |
| 11 | Structural Test Coverage Criteria for Deep Neural Networks. , 2019, , . | | 14 |
| 12 | JBMC: Bounded Model Checking for Java Bytecode. Lecture Notes in Computer Science, 2019, , 219-223. | 1.3 | 14 |
| 13 | Global Robustness Evaluation of Deep Neural Networks with Provable Guarantees for the Hamming Distance. , 2019, , . | | 47 |
| 14 | Gollum. , 2019, , . | | 24 |
| 15 | Effective Verification for Low-Level Software with Competing Interrupts. Transactions on Embedded Computing Systems, 2018, 17, 1-26. | 2.9 | 6 |
| 16 | Bit-Precise Procedure-Modular Termination Analysis. ACM Transactions on Programming Languages and Systems, 2018, 40, 1-38. | 2.1 | 12 |
| 17 | DSValidator. , 2018, , . | | 1 |

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| 19 | Program Synthesis for Program Analysis. ACM Transactions on Programming Languages and Systems, 2018, 40, 1-45. | 2.1 | 6 |
| 20 | Optimising Spectrum Based Fault Localisation for Single Fault Programs Using Specifications. Lecture Notes in Computer Science, 2018, , 246-263. | 1.3 | 5 |
| 21 | Efficient verification of multi-property designs (The benefit of wrong assumptions). , 2018, , . | | 7 |
| 22 | Verification of tree-based hierarchical read-copy update in the Linux kernel. , 2018, , . | | 2 |
| 23 | Model Checking Boot Code from AWS Data Centers. Lecture Notes in Computer Science, 2018, , 467-486. | 1.3 | 16 |
| 24 | JBMC: A Bounded Model Checking Tool for Verifying Java Bytecode. Lecture Notes in Computer Science, 2018, , 183-190. | 1.3 | 42 |
| 25 | Counterexample Guided Inductive Synthesis Modulo Theories. Lecture Notes in Computer Science, 2018, , 270-288. | 1.3 | 33 |
| 26 | Lost in abstraction: Monotonicity in multi-threaded programs. Information and Computation, 2017, 252, 30-47. | 0.7 | 3 |
| 27 | Independence Abstractions and Models of Concurrency. Lecture Notes in Computer Science, 2017, , 151-168. | 1.3 | 2 |
| 28 | Don't Sit on the Fence. ACM Transactions on Programming Languages and Systems, 2017, 39, 1-38. | 2.1 | 16 |
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| 31 | Automated Formal Synthesis of Digital Controllers for State-Space Physical Plants. Lecture Notes in Computer Science, 2017, , 462-482. | 1.3 | 19 |
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| 35 | Abstract Interpretation with Unfoldings. Lecture Notes in Computer Science, 2017, , 197-216. | 1.3 | 7 |
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| 37 | Verifying digital systems with MATLAB. , 2017, , . | | 6 |
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| 42 | Lifting CDCL to Template-Based Abstract Domains for Program Verification. Lecture Notes in Computer Science, 2017, , 307-326. | 1.3 | 3 |
| 43 | Static Program Analysis for Identifying Energy Bugs in Graphics-Intensive Mobile Apps. , 2016, , . | | 6 |
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| 45 | Assisted Coverage Closure. Lecture Notes in Computer Science, 2016, , 49-64. | 1.3 | 1 |
| 46 | Decision Procedures. Texts in Theoretical Computer Science, 2016, , . | 0.8 | 68 |
| 47 | Preface: Special Issue on Interpolation. Journal of Automated Reasoning, 2016, 57, 1-2. | 1.4 | 1 |
| 48 | The virtues of conflict. , 2016, , . | | 0 |
| 49 | Generating test case chains for reactive systems. International Journal on Software Tools for Technology Transfer, 2016, 18, 319-334. | 1.9 | 6 |
| 50 | <pre>\$\$mathsf {SC}^mathsf{2} \$\$: Satisfiability Checking Meets Symbolic Computation. Lecture Notes in Computer Science, 2016, , 28-43.</pre> | 1.3 | 17 |
| 51 | Danger Invariants. Lecture Notes in Computer Science, 2016, , 182-198. | 1.3 | 9 |
| 52 | Equivalence Checking of a Floating-Point Unit Against a High-Level C Model. Lecture Notes in Computer Science, 2016, , 551-558. | 1.3 | 4 |
| 53 | Probabilistic Fault Localisation. Lecture Notes in Computer Science, 2016, , 65-81. | 1.3 | 3 |
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| 58 | Unbounded Safety Verification for Hardware Using Software Analyzers. , 2016, , . | | 2 |
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| 61 | Accelerating invariant generation. , 2015, , . | | 8 |
| 62 | Effective Verification of Low-Level Software with Nested Interrupts. , 2015, , . | | 10 |
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| 64 | Synthesising Interprocedural Bit-Precise Termination Proofs (T). , 2015, , . | | 20 |
| 65 | Hardware Verification Using Software Analyzers. , 2015, , . | | 30 |
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| 73 | Propositional Reasoning about Safety and Termination of Heap-Manipulating Programs. Lecture Notes in Computer Science, 2015, , 661-684. | 1.3 | 3 |
| 74 | Unrestricted Termination and Non-termination Arguments for Bit-Vector Programs. Lecture Notes in Computer Science, 2015, , 183-204. | 1.3 | 16 |
| 75 | Evaluation of Measures for Statistical Fault Localisation and an Optimising Scheme. Lecture Notes in Computer Science, 2015, , 115-129. | 1.3 | 18 |
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| 78 | From AgentSpeak to C for Safety Considerations in Unmanned Aerial Vehicles. Lecture Notes in Computer Science, 2015, , 69-81. | 1.3 | 2 |
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| 82 | Deciding floating-point logic with abstract conflict driven clause learning. Formal Methods in System Design, 2014, 45, 213-245. | 0.8 | 39 |
| 83 | Abstract satisfaction. , 2014, , . | | 13 |
| 84 | Precise Predictive Analysis for Discovering Communication Deadlocks in MPI Programs. Lecture Notes in Computer Science, 2014, , 263-278. | 1.3 | 23 |
| 85 | Don't Sit on the Fence. Lecture Notes in Computer Science, 2014, , 508-524. | 1.3 | 31 |
| 86 | Automating Software Analysis at Large Scale. Lecture Notes in Computer Science, 2014, , 30-39. | 1.3 | 5 |
| 87 | CBMC – C Bounded Model Checker. Lecture Notes in Computer Science, 2014, , 389-391. | 1.3 | 198 |
| 88 | Lost in Abstraction: Monotonicity in Multi-threaded Programs. Lecture Notes in Computer Science, 2014, , 141-155. | 1.3 | 15 |
| 89 | Abstract satisfaction. ACM SIGPLAN Notices, 2014, 49, 139-150. | 0.2 | 1 |
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| 110 | satabs: A Bit-Precise Verifier for C Programs. Lecture Notes in Computer Science, 2012, , 552-555. | 1.3 | 8 |
| 111 | Wolverine: Battling Bugs with Interpolants. Lecture Notes in Computer Science, 2012, , 556-558. | 1.3 | 3 |
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| 115 | Proving Reachability Using FShell. Lecture Notes in Computer Science, 2012, , 538-541. | 1.3 | 3 |
| 116 | SCRATCH. ACM SIGPLAN Notices, 2011, 46, 311-312. | 0.2 | 1 |
| 117 | Automatic analysis of DMA races using model checking and k-induction. Formal Methods in System Design, 2011, 39, 83-113. | 0.8 | 16 |
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| 130 | Soundness of Data Flow Analyses for Weak Memory Models. Lecture Notes in Computer Science, 2011, , 272-288. | 1.3 | 12 |
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| 142 | Dynamic Cutoff Detection in Parameterized Concurrent Programs. Lecture Notes in Computer Science, 2010, , 645-659. | 1.3 | 78 |
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| 149 | An abstraction-based decision procedure for bit-vector arithmetic. International Journal on Software Tools for Technology Transfer, 2009, 11, 95-104. | 1.9 | 17 |
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| 164 | Scoot: A Tool for the Analysis of SystemCÂModels. , 2008, , 467-470. | | 25 |
| 165 | Loop Summarization Using Abstract Transformers. Lecture Notes in Computer Science, 2008, , 111-125. | 1.3 | 35 |
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| 169 | Verifying C++ with STL containers via predicate abstraction. , 2007, , . | | 20 |
| 170 | Model checking concurrent linux device drivers. , 2007, , . | | 64 |
| 171 | Formal verification at higher levels of abstraction. IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2007, , . | 0.0 | 3 |
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| 179 | Over-Approximating Boolean Programs with Unbounded Thread Creation. , 2006, , . | | 8 |
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