Bernd Finkbeiner

List of Publications by Year
in descending order

40 papers	960 citations	643344 15 h-index	563245 28 g-index
47 all docs	47 docs citations	47 times ranked	317 citing authors

#	ARTICLE	IF	CITATIONS
1	Visual Analysis of Hyperproperties for Understanding Model Checking Results. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 357-367.	2.9	4
2	Temporal Stream Logic modulo Theories. Lecture Notes in Computer Science, 2022, , 325-346.	1.0	5
3	Compositional synthesis of modular systems. Innovations in Systems and Software Engineering, 2022, 18, 455-469.	1.6	4
4	A Truly Robust Signal Temporal Logic: Monitoring Safety Properties of Interacting Cyber-Physical Systems under Uncertain Observation. Algorithms, 2022, 15, 126.	1.2	4
5	Model Checking Algorithms for Hyperproperties (Invited Paper). Lecture Notes in Computer Science, 2021, , 3-16.	1.0	5
6	A Temporal Logic for Asynchronous Hyperproperties. Lecture Notes in Computer Science, 2021, , 694-717.	1.0	20
7	RTLola on Board: Testing Real Driving Emissions on your Phone. Lecture Notes in Computer Science, 2021, , 365-372.	1.0	5
8	Specification Decomposition for Reactive Synthesis. Lecture Notes in Computer Science, 2021, , 113-130.	1.0	8
9	Introduction to the special issue of the 19th International Conference on Runtime Verification. International Journal on Software Tools for Technology Transfer, 2021, 23, 545-546.	1.7	0
10	Robust monitoring for medical cyber-physical systems. , 2021, , .		4
11	Causality-Based Game Solving. Lecture Notes in Computer Science, 2021, , 894-917.	1.0	8
12	Compositional Synthesis of Modular Systems. Lecture Notes in Computer Science, 2021, , 303-319.	1.0	3
13	Monitoring with Verified Guarantees. Lecture Notes in Computer Science, 2021, , 62-80.	1.0	8
14	Synthesis from hyperproperties. Acta Informatica, 2020, 57, 137-163.	0.5	11
15	RTLola Cleared for Take-Off: Monitoring Autonomous Aircraft. Lecture Notes in Computer Science, 2020, , 28-39.	1.0	22
16	Realizing $$omega $$-regular Hyperproperties. Lecture Notes in Computer Science, 2020, , 40-63.	1.0	2
17	Probabilistic Hyperproperties of Markov Decision Processes. Lecture Notes in Computer Science, 2020, , 484-500.	1.0	17
18	Verified Rust Monitors for Lola Specifications. Lecture Notes in Computer Science, 2020, , 431-450.	1.0	9

#	Article	IF	Citations
19	Automatic Optimizations for Stream-Based Monitoring Languages. Lecture Notes in Computer Science, 2020, , 451-461.	1.0	1
20	The Hierarchy of Hyperlogics. , 2019, , .		29
21	Syntroids: Synthesizing a Game for FPGAs using Temporal Logic Specifications. , 2019, , .		6
22	StreamLAB: Stream-based Monitoring of Cyber-Physical Systems. Lecture Notes in Computer Science, 2019, , 421-431.	1.0	48
23	Temporal Stream Logic: Synthesis Beyond the Bools. Lecture Notes in Computer Science, 2019, , 609-629.	1.0	14
24	Program Repair for Hyperproperties. Lecture Notes in Computer Science, 2019, , 423-441.	1.0	12
25	FPGA Stream-Monitoring of Real-time Properties. Transactions on Embedded Computing Systems, 2019, 18, 1-24.	2.1	16
26	MGHyper: Checking Satisfiability of HyperLTL Formulas Beyond the $$exists ^*orall ^*$$âƒâˆ—âˆ€âˆ— Fragment. Lecture Notes in Computer Science, 2018, , 521-527.	1.0	15
27	Model Checking Quantitative Hyperproperties. Lecture Notes in Computer Science, 2018, , 144-163.	1.0	30
28	Monitoring Hyperproperties. Lecture Notes in Computer Science, 2017, , 190-207.	1.0	22
29	BoSy: An Experimentation Framework for Bounded Synthesis. Lecture Notes in Computer Science, 2017, , 325-332.	1.0	39
30	EAHyper: Satisfiability, Implication, and Equivalence Checking of Hyperproperties. Lecture Notes in Computer Science, 2017, , 564-570.	1.0	30
31	Stream Runtime Monitoring on UAS. Lecture Notes in Computer Science, 2017, , 33-49.	1.0	20
32	Encodings of Bounded Synthesis. Lecture Notes in Computer Science, 2017, , 354-370.	1.0	42
33	Algorithms for Model Checking HyperLTL and HyperCTL $*$. Lecture Notes in Computer Science, 2015, , 30-48.	1.0	95
34	Automatic Compositional Synthesis of Distributed Systems. Lecture Notes in Computer Science, 2014, , 179-193.	1.0	17
35	Temporal Logics for Hyperproperties. Lecture Notes in Computer Science, 2014, , 265-284.	1.0	149
36	Bounded synthesis. International Journal on Software Tools for Technology Transfer, 2013, 15, 519-539.	1.7	101

#	Article	IF	Citations
37	Slicing Abstractions. , 2007, , 17-32.		12
38	The 4th Reactive Synthesis Competition (SYNTCOMP 2017): Benchmarks, Participants & Results. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 260, 116-143.	0.8	25
39	Live synthesis. Innovations in Systems and Software Engineering, 0, , 1.	1.6	0
40	Specification decomposition for reactive synthesis. Innovations in Systems and Software Engineering, 0, , .	1.6	0