Goran Frehse

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44 papers	1,181 citations	16 h-index	34 g-index
49 ext. papers	1,367 ext. citations	1.6 avg, IF	4.87 L-index

#	Paper	IF	Citations
44	Set Propagation Techniques for Reachability Analysis. *Annual Review of Control, Robotics, and Autonomous Systems*, **2021**, 4, 369-395	11.8	22
43	Falsification of hybrid systems with symbolic reachability analysis and trajectory splicing. *Nonlinear Analysis: Hybrid Systems*, **2021**, 42, 101093	4.5	
42	Reachability Analysis of Linear Hybrid Systems via Block Decomposition. *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, **2020**, 39, 4018-4029	2.5	3
41	JuliaReach **2019**,		18
40	Falsification of hybrid systems using symbolic reachability and trajectory splicing **2019**,		3
39	Formal Feature Interpretation of Hybrid Systems. *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, **2018**, 37, 2474-2484	2.5	3
38	Space-Time Interpolants. *Lecture Notes in Computer Science*, **2018**, 468-486	0.9	3
37	Reach Set Approximation through Decomposition with Low-dimensional Sets and High-dimensional Matrices **2018**,		20
36	Verification of Hybrid Systems **2018**, 1047-1110		18
35	The 20th ACM International Conference on Hybrid Systems: Computation and Control [Conference Reports]. *IEEE Control Systems*, **2017**, 37, 98-99	2.9	5
34	Constructing verification models of nonlinear Simulink systems via syntactic hybridization **2017**,		1
33	Counterexample-Guided Refinement of Template Polyhedra. *Lecture Notes in Computer Science*, **2017**, 589-606	0.9	10
32	Guided search for hybrid systems based on coarse-grained space abstractions. *International Journal on Software Tools for Technology Transfer*, **2016**, 18, 449-467	1.3	10
31	From Simulation Models to Hybrid Automata Using Urgency and Relaxation **2016**,		6
30	SL2SX Translator **2016**,		25
29	Formal feature analysis of hybrid automata **2016**,		2
28	Combining zonotopes and support functions for efficient reachability analysis of linear systems **2016**,		17

27	Current Challenges in the Verification of Hybrid Systems. *Lecture Notes in Computer Science*, **2015**, 8-24	0.9	18
26	Eliminating spurious transitions in reachability with support functions **2015**,		13
25	Reachability of hybrid systems in space-time **2015**,		2
24	A Benchmark Suite for Hybrid Systems Reachability Analysis. *Lecture Notes in Computer Science*, **2015**, 408-414	0.9	18
23	An Introduction to Hybrid Automata, Numerical Simulation and Reachability Analysis **2015**, 50-81		2
22	Formal Analysis of Timing Effects on Closed-Loop Properties of Control Software **2014**,		36
21	Non-convex Invariants and Urgency Conditions on Linear Hybrid Automata. *Lecture Notes in Computer Science*, **2014**, 176-190	0.9	5
20	Assume-Guarantee Abstraction Refinement Meets Hybrid Systems. *Lecture Notes in Computer Science*, **2014**, 116-131	0.9	21
19	Flowpipe approximation and clustering in space-time **2013**,		34
18	Modular, hierarchical models of control systems in SpaceEx **2013**,		4
17	Abstraction-Based Guided Search for Hybrid Systems. *Lecture Notes in Computer Science*, **2013**, 117-134	0.9	6
16	Flowpipe-Guard Intersection for Reachability Computations with Support Functions*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2012**, 45, 94-101		6
15	A Box-Based Distance between Regions for Guiding the Reachability Analysis of SpaceEx. *Lecture Notes in Computer Science*, **2012**, 479-494	0.9	10
14	SpaceEx: Scalable Verification of Hybrid Systems. *Lecture Notes in Computer Science*, **2011**, 379-395	0.9	368
13	Efficient Bounded Reachability Computation for Rectangular Automata. *Lecture Notes in Computer Science*, **2011**, 139-152	0.9	3
12	Monitoring Dynamical Signals While Testing Timed Aspects of a System. *Lecture Notes in Computer Science*, **2011**, 115-130	0.9	1
11	Design Principles for an Extendable Verification Tool for Hybrid Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 244-249		3
10	PHAVer: algorithmic verification of hybrid systems past HyTech. *International Journal on Software Tools for Technology Transfer*, **2008**, 10, 263-279	1.3	136

9	A Counterexample-Guided Approach to Parameter Synthesis for Linear Hybrid Automata. *Lecture Notes in Computer Science*, **2008**, 187-200	0.9	40
8	Reachability Analysis of a Switched Buffer Network **2007**, 698-701		2
7	Recent progress in continuous and hybrid reachability analysis **2006**,		47
6	Time Domain Verification of Oscillator Circuit Properties. *Electronic Notes in Theoretical Computer Science*, **2006**, 153, 9-22	0.7	15
5	Recent Progress in Continuoushybrid Reachability Analysis **2006**,		8
4	On Timed Simulation Relations for Hybrid Systems and Compositionality. *Lecture Notes in Computer Science*, **2006**, 200-214	0.9	6
3	PHAVer: Algorithmic Verification of Hybrid Systems Past HyTech. *Lecture Notes in Computer Science* , **2005**, 258-273	0.9	207
2	MODULAR ANALYSIS OF DISCRETE CONTROLLERS FOR DISTRIBUTED HYBRID SYSTEMS. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2002**, 35, 469-474		2
1	Tools for the Analysis of Hybrid Models227-251		1