

Ansgar Fehnker

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,099
citations

516561

16
h-index

434063

31
g-index

59
all docs

59
docs citations

59
times ranked

561
citing authors

#	ARTICLE	IF	CITATIONS
1	Abstraction and Counterexample-Guided Refinement in Model Checking of Hybrid Systems. International Journal of Foundations of Computer Science, 2003, 14, 583-604.	0.8	146
2	Benchmarks for Hybrid Systems Verification. Lecture Notes in Computer Science, 2004, , 326-341.	1.0	120
3	As Cheap as Possible: Efficient Cost-Optimal Reachability for Priced Timed Automata. Lecture Notes in Computer Science, 2001, , 493-505.	1.0	87
4	Efficient Guiding Towards Cost-Optimality in UPPAAL. Lecture Notes in Computer Science, 2001, , 174-188.	1.0	72
5	Verification of Hybrid Systems Based on Counterexample-Guided Abstraction Refinement. Lecture Notes in Computer Science, 2003, , 192-207.	1.0	62
6	Modelling and Verification of the LMAC Protocol for Wireless Sensor Networks. Lecture Notes in Computer Science, 2007, , 253-272.	1.0	58
7	A Process Algebra for Wireless Mesh Networks. Lecture Notes in Computer Science, 2012, , 295-315.	1.0	53
8	Automated Analysis of AODV Using UPPAAL. Lecture Notes in Computer Science, 2012, , 173-187.	1.0	48
9	UPPAAL - Now, Next, and Future. Lecture Notes in Computer Science, 2001, , 99-124.	1.0	43
10	Verification of a cruise control system using counterexample-guided search. Control Engineering Practice, 2004, 12, 1269-1278.	3.2	33
11	Survey on Directed Model Checking. Lecture Notes in Computer Science, 2009, , 65-89.	1.0	30
12	Verification and optimization of a PLC control schedule. International Journal on Software Tools for Technology Transfer, 2002, 4, 21-33.	1.7	29
13	Formal Verification and Simulation for Performance Analysis for Probabilistic Broadcast Protocols. Lecture Notes in Computer Science, 2006, , 128-141.	1.0	27
14	SMT-Based False Positive Elimination in Static Program Analysis. Lecture Notes in Computer Science, 2012, , 316-331.	1.0	23
15	Model Checking Software at Compile Time. , 2007, , .		22
16	Refining Abstractions of Hybrid Systems Using Counterexample Fragments. Lecture Notes in Computer Science, 2005, , 242-257.	1.0	21
17	Minimum-Cost Reachability for Priced Timed Automata. BRICS Report Series, 2001, 8, .	0.2	20
18	Modeling and Verification of the Bitcoin Protocol. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 196, 46-60.	0.8	14

#	ARTICLE	IF	CITATIONS
19	A rigorous analysis of AODV and its variants. , 2012, , .		12
20	Efficient Guiding Towards Cost-Optimality in UPPAAL. BRICS Report Series, 2001, 8, .	0.2	11
21	Twenty Percent and a Few Days “ Optimising a Bitcoin Majority Attack. Lecture Notes in Computer Science, 2018, , 157-163.	1.0	10
22	Automatic Bug Detection in Microcontroller Software by Static Program Analysis. Lecture Notes in Computer Science, 2009, , 267-278.	1.0	10
23	Topology-Based Mobility Models for Wireless Networks. Lecture Notes in Computer Science, 2013, , 389-404.	1.0	10
24	Evaluating the Stream Control Transmission Protocol Using Uppaal. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 244, 1-13.	0.8	9
25	Model checking driven static analysis for the real world: designing and tuning large scale bug detection. Innovations in Systems and Software Engineering, 2013, 9, 45-56.	1.6	8
26	CaVi – Simulation and Model Checking for Wireless Sensor Networks. , 2008, , .		7
27	Fade to Grey: Tuning Static Program Analysis. Electronic Notes in Theoretical Computer Science, 2010, 266, 17-32.	0.9	7
28	Hybrid System Verification Is Not a Sinecure. Lecture Notes in Computer Science, 2004, , 263-277.	1.0	7
29	Some Assembly Required - Program Analysis of Embedded System Code. , 2008, , .		6
30	Counterexample Guided Path Reduction for Static Program Analysis. Lecture Notes in Computer Science, 2010, , 322-341.	1.0	6
31	Software Metrics in Static Program Analysis. Lecture Notes in Computer Science, 2010, , 485-500.	1.0	6
32	High Performance Static Analysis for Industry. Electronic Notes in Theoretical Computer Science, 2012, 289, 3-14.	0.9	5
33	Detecting and Addressing Design Smells in Novice Processing Programs. Communications in Computer and Information Science, 2019, , 507-531.	0.4	5
34	Modelling, Verification, and Comparative Performance Analysis of the B.A.T.M.A.N. Protocol. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 244, 53-65.	0.8	5
35	Specification-Guided Analysis of Hybrid Systems Using a Hierarchy of Validation Methods. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 289-294.	0.4	4
36	An Abstract Specification Language for Static Program Analysis. Electronic Notes in Theoretical Computer Science, 2009, 254, 181-197.	0.9	4

#	ARTICLE	IF	CITATIONS
37	Automated Assessment of Learning Objectives in Programming Assignments. Lecture Notes in Computer Science, 2021, , 299-309.	1.0	4
38	Tinkering in Informatics as Teaching Method. , 2020, , .		4
39	Verification of a cruise control system using counterexample-guided search*1. Control Engineering Practice, 2004, 12, 1269-1269.	3.2	2
40	HYBRID SYSTEM VERIFICATION IS NOT A SINECURE â€” THE ELECTRONIC THROTTLE CONTROL CASE STUDY. International Journal of Foundations of Computer Science, 2006, 17, 885-901.	0.8	2
41	Model checking dataflow for malicious input. , 2011, , .		2
42	Automated Program Analysis for Novice Programmers. , 0, , .		2
43	On the Impact of Modelling Choices for Distributed Information Spread. , 2009, , .		1
44	Out for coffee: with Rob. Acta Informatica, 2020, 57, 323-327.	0.5	1
45	Model Checking a Server-Side Micro Payment Protocol. Lecture Notes in Computer Science, 2015, , 96-110.	1.0	1
46	Adaptive Formal Framework for WMN Routing Protocols. Lecture Notes in Computer Science, 2018, , 175-195.	1.0	1
47	The Smell of Processing. , 2018, , .		1
48	Cyber security at software development time. , 2011, , .		0
49	Modeling and verification for the server-side Netpay protocol. , 2014, , .		0
50	Model Checking a Client-Side Micro Payment Protocol. , 2016, , .		0
51	The Quest for Precision: A Layered Approach for Data Race Detection in Static Analysis. Lecture Notes in Computer Science, 2013, , 516-525.	1.0	0
52	A Distributed Blockchain Model of Selfish Mining. Lecture Notes in Computer Science, 2020, , 350-361.	1.0	0
53	Atelier. , 2020, , .		0