

Ruediger Ehlers

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

888
citations

758635

12
h-index

580395

25
g-index

49
all docs

49
docs citations

49
times ranked

467
citing authors

#	ARTICLE	IF	CITATIONS
1	Formal Verification of Piece-Wise Linear Feed-Forward Neural Networks. Lecture Notes in Computer Science, 2017, , 269-286.	1.0	266
2	Slugs: Extensible GR(1) Synthesis. Lecture Notes in Computer Science, 2016, , 333-339.	1.0	62
3	Supervisory control and reactive synthesis: a comparative introduction. Discrete Event Dynamic Systems: Theory and Applications, 2017, 27, 209-260.	0.6	48
4	Unbeast: Symbolic Bounded Synthesis. Lecture Notes in Computer Science, 2011, , 272-275.	1.0	47
5	Symbolic Bounded Synthesis. Lecture Notes in Computer Science, 2010, , 365-379.	1.0	33
6	How to Handle Assumptions in Synthesis. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 157, 34-50.	0.8	33
7	Resilience to intermittent assumption violations in reactive synthesis. , 2014, , .		31
8	Correct-by-synthesis reinforcement learning with temporal logic constraints. , 2015, , .		30
9	Symbolic bounded synthesis. Formal Methods in System Design, 2012, 40, 232-262.	0.9	25
10	The first reactive synthesis competition (SYNTCOMP 2014). International Journal on Software Tools for Technology Transfer, 2017, 19, 367-390.	1.7	23
11	Formalizing and guaranteeing human-robot interaction. Communications of the ACM, 2021, 64, 78-84.	3.3	22
12	Generalized Rabin(1) Synthesis with Applications to Robust System Synthesis. Lecture Notes in Computer Science, 2011, , 101-115.	1.0	21
13	Correct High-level Robot Behavior in Environments with Unexpected Events. , 0, , .		20
14	Synthesizing cooperative reactive mission plans. , 2015, , .		16
15	Cooperative Reactive Synthesis. Lecture Notes in Computer Science, 2015, , 394-410.	1.0	16
16	Minimising Deterministic Büchi Automata Precisely Using SAT Solving. Lecture Notes in Computer Science, 2010, , 326-332.	1.0	15
17	Fully Symbolic Timed Model Checking Using Constraint Matrix Diagrams. , 2010, , .		14
18	Bridging the Gap between Supervisory Control and Reactive Synthesis: Case of Full Observation and Centralized Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 222-227.	0.4	14

#	ARTICLE	IF	CITATIONS
19	Synthia: Verification and Synthesis for Timed Automata. Lecture Notes in Computer Science, 2011, , 649-655.	1.0	14
20	Special Session: Embedded Software for Robotics: Challenges and Future Directions. , 2018, , .		9
21	Low-Effort Specification Debugging and Analysis. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 157, 117-133.	0.8	9
22	Short Witnesses and Accepting Lassos in ω -Automata. Lecture Notes in Computer Science, 2010, , 261-272.	1.0	9
23	Shortcut through an evil door: Optimality of correct-by-construction controllers in adversarial environments. , 2013, , .		8
24	Estimator-based reactive synthesis under incomplete information. , 2015, , .		8
25	Resilient, Provably-Correct, and High-Level Robot Behaviors. IEEE Transactions on Robotics, 2018, 34, 936-952.	7.3	8
26	On the Virtue of Patience: Minimizing Büchi Automata. Lecture Notes in Computer Science, 2010, , 129-145.	1.0	8
27	Synthesis with Identifiers. Lecture Notes in Computer Science, 2014, , 415-433.	1.0	8
28	Engineering Human-Machine Teams for Trusted Collaboration. Big Data and Cognitive Computing, 2020, 4, 35.	2.9	7
29	Model Checking the FlexRay Physical Layer Protocol. Lecture Notes in Computer Science, 2010, , 132-147.	1.0	7
30	ALLQBF Solving by Computational Learning. Lecture Notes in Computer Science, 2012, , 370-384.	1.0	7
31	Monitoring Realizability. Lecture Notes in Computer Science, 2012, , 427-441.	1.0	6
32	Experimental Aspects of Synthesis. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 50, 1-16.	0.8	6
33	CEGAR-based EF synthesis of Boolean functions with an application to circuit rectification. , 2017, , .		5
34	Automated generation of dynamics-based runtime certificates for high-level control. Discrete Event Dynamic Systems: Theory and Applications, 2017, 27, 371-405.	0.6	5
35	ACTL $\hat{=}$ LTL Synthesis. Lecture Notes in Computer Science, 2012, , 39-54.	1.0	5
36	Reactive Safety. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 54, 178-191.	0.8	5

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37	Sparse Positional Strategies for Safety Games. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 84, 1-16.	0.8	4
38	A Fragment of Linear Temporal Logic for Universal Very Weak Automata. Lecture Notes in Computer Science, 2018, , 335-351.	1.0	3
39	Reactive Synthesis of Graphical User Interface Glue Code. Lecture Notes in Computer Science, 2019, , 387-403.	1.0	1
40	Making the Right Cut in Model Checking Data-Intensive Timed Systems. Lecture Notes in Computer Science, 2010, , 565-580.	1.0	1
41	FlexRay for Avionics: Automatic Verification with Parametric Physical Layers. , 2012, , .		0
42	Risk-averse control of Markov decision processes with γ -regular objectives. , 2016, , .		0
43	Adapting to the Behavior of Environments with Bounded Memory. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 346, 52-66.	0.8	0
44	A Tool That Incrementally Approximates Finite Satisfiability in Full Interval Temporal Logic. Lecture Notes in Computer Science, 2014, , 360-366.	1.0	0
45	Path-Based Program Repair. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 178, 22-32.	0.8	0
46	How Hard Is Finding Shortest Counter-Example Lassos in Model Checking?. Lecture Notes in Computer Science, 2019, , 245-261.	1.0	0
47	SAT Solving with Fragmented Hamiltonian Path Constraints for Wire Arc Additive Manufacturing. Lecture Notes in Computer Science, 2020, , 492-500.	1.0	0