

Ruediger Ehlers

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

888
citations

759233

12
h-index

580821

25
g-index

49
all docs

49
docs citations

49
times ranked

467
citing authors

#	ARTICLE	IF	CITATIONS
1	Formalizing and guaranteeing human-robot interaction. Communications of the ACM, 2021, 64, 78-84.	4.5	22
2	Engineering Human-Machine Teams for Trusted Collaboration. Big Data and Cognitive Computing, 2020, 4, 35.	4.7	7
3	SAT Solving with Fragmented Hamiltonian Path Constraints for Wire Arc Additive Manufacturing. Lecture Notes in Computer Science, 2020, , 492-500.	1.3	0
4	Reactive Synthesis of Graphical User Interface Glue Code. Lecture Notes in Computer Science, 2019, , 387-403.	1.3	1
5	How Hard Is Finding Shortest Counter-Example Lassos in Model Checking?. Lecture Notes in Computer Science, 2019, , 245-261.	1.3	0
6	Special Session: Embedded Software for Robotics: Challenges and Future Directions. , 2018, , .		9
7	Resilient, Provably-Correct, and High-Level Robot Behaviors. IEEE Transactions on Robotics, 2018, 34, 936-952.	10.3	8
8	A Fragment of Linear Temporal Logic for Universal Very Weak Automata. Lecture Notes in Computer Science, 2018, , 335-351.	1.3	3
9	The first reactive synthesis competition (SYNTCOMP 2014). International Journal on Software Tools for Technology Transfer, 2017, 19, 367-390.	1.9	23
10	Supervisory control and reactive synthesis: a comparative introduction. Discrete Event Dynamic Systems: Theory and Applications, 2017, 27, 209-260.	1.5	48
11	CEGAR-based EF synthesis of Boolean functions with an application to circuit rectification. , 2017, , .		5
12	Automated generation of dynamics-based runtime certificates for high-level control. Discrete Event Dynamic Systems: Theory and Applications, 2017, 27, 371-405.	1.5	5
13	Formal Verification of Piece-Wise Linear Feed-Forward Neural Networks. Lecture Notes in Computer Science, 2017, , 269-286.	1.3	266
14	Risk-averse control of Markov decision processes with ℓ_1 -regular objectives. , 2016, , .		0
15	Slugs: Extensible GR(1) Synthesis. Lecture Notes in Computer Science, 2016, , 333-339.	1.3	62
16	Correct-by-synthesis reinforcement learning with temporal logic constraints. , 2015, , .		30
17	Synthesizing cooperative reactive mission plans. , 2015, , .		16
18	Estimator-based reactive synthesis under incomplete information. , 2015, , .		8

#	ARTICLE	IF	CITATIONS
19	Cooperative Reactive Synthesis. Lecture Notes in Computer Science, 2015, , 394-410.	1.3	16
20	Resilience to intermittent assumption violations in reactive synthesis. , 2014, , .		31
21	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
22	Synthesis with Identifiers. Lecture Notes in Computer Science, 2014, , 415-433.	1.3	8
23	A Tool That Incrementally Approximates Finite Satisfiability in Full Interval Temporal Logic. Lecture Notes in Computer Science, 2014, , 360-366.	1.3	0
24	Shortcut through an evil door: Optimality of correct-by-construction controllers in adversarial environments. , 2013, , .		8
25	FlexRay for Avionics: Automatic Verification with Parametric Physical Layers. , 2012, , .		0
26	Symbolic bounded synthesis. Formal Methods in System Design, 2012, 40, 232-262.	0.8	25
27	Monitoring Realizability. Lecture Notes in Computer Science, 2012, , 427-441.	1.3	6
28	ACTL $\hat{=}$ LTL Synthesis. Lecture Notes in Computer Science, 2012, , 39-54.	1.3	5
29	ALLQBF Solving by Computational Learning. Lecture Notes in Computer Science, 2012, , 370-384.	1.3	7
30	Unbeast: Symbolic Bounded Synthesis. Lecture Notes in Computer Science, 2011, , 272-275.	1.3	47
31	Generalized Rabin(1) Synthesis with Applications to Robust System Synthesis. Lecture Notes in Computer Science, 2011, , 101-115.	1.3	21
32	Synthia: Verification and Synthesis for Timed Automata. Lecture Notes in Computer Science, 2011, , 649-655.	1.3	14
33	Fully Symbolic Timed Model Checking Using Constraint Matrix Diagrams. , 2010, , .		14
34	Minimising Deterministic Büchi Automata Precisely Using SAT Solving. Lecture Notes in Computer Science, 2010, , 326-332.	1.3	15
35	Symbolic Bounded Synthesis. Lecture Notes in Computer Science, 2010, , 365-379.	1.3	33
36	Model Checking the FlexRay Physical Layer Protocol. Lecture Notes in Computer Science, 2010, , 132-147.	1.3	7

#	ARTICLE	IF	CITATIONS
37	On the Virtue of Patience: Minimizing Büchi Automata. Lecture Notes in Computer Science, 2010, , 129-145.	1.3	8
38	Making the Right Cut in Model Checking Data-Intensive Timed Systems. Lecture Notes in Computer Science, 2010, , 565-580.	1.3	1
39	Short Witnesses and Accepting Lassos in ω -Automata. Lecture Notes in Computer Science, 2010, , 261-272.	1.3	9
40	Adapting to the Behavior of Environments with Bounded Memory. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 346, 52-66.	0.8	0
41	Correct High-level Robot Behavior in Environments with Unexpected Events. , 0, , .		20
42	Low-Effort Specification Debugging and Analysis. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 157, 117-133.	0.8	9
43	How to Handle Assumptions in Synthesis. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 157, 34-50.	0.8	33
44	Experimental Aspects of Synthesis. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 50, 1-16.	0.8	6
45	Reactive Safety. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 54, 178-191.	0.8	5
46	Sparse Positional Strategies for Safety Games. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 84, 1-16.	0.8	4
47	Path-Based Program Repair. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 178, 22-32.	0.8	0