Ebru Aydin Gol

List of Publications by Year
in descending order

49 papers	569 citations	1163117 8 h-index	752698 20 g-index
51 all docs	51 docs citations	51 times ranked	340 citing authors

#	Article	IF	Citations
1	An automated system repair framework with signal temporal logic. Acta Informatica, 2022, 59, 183-209.	0.5	5
2	Timed Automata Relaxation for Reachability. Lecture Notes in Computer Science, 2021, , 291-310.	1.3	3
3	Optimal Policy Synthesis from A Sequence of Goal Sets with An Application to Electric Distribution System Restoration. IFAC-PapersOnLine, 2021, 54, 271-276.	0.9	1
4	Ebru Aydin Gol [People in Control]. IEEE Control Systems, 2021, 41, 25-26.	0.8	0
5	Synthesis of Monitoring Rules with STL. Journal of Circuits, Systems and Computers, 2020, 29, 2050177.	1.5	3
6	MDP based Decision Support for Earthquake Damaged Distribution System Restoration. , 2020, , .		3
7	Adaptive Cruise Control with Timed Automata. IFAC-PapersOnLine, 2020, 53, 1918-1923.	0.9	1
8	Learning Parameters of ptSTL Formulas with Backpropagation. , 2020, , .		1
9	Synthesis of Controllable ptSTL Formulas. , 2020, , .		0
10	Cause Mining and Controller Synthesis with STL. , 2019, , .		3
11	A Novel MDP Based Decision Support Framework to Restore Earthquake Damaged Distribution Systems. , 2019, , .		3
12	Optimizing Parameters of Signal Temporal Logic Formulas with Local Search. , 2019, , .		0
13	Clock Reduction in Timed Automata While Preserving Design Parameters. , 2019, , .		1
14	An Efficient Formula Synthesis Method with Past Signal Temporal Logic. IFAC-PapersOnLine, 2019, 52, 43-48.	0.9	5
15	Synthesis of Monitoring Rules via Data Mining. , 2019, , .		5
16	A Formal Methods Approach to Pattern Recognition and Synthesis in Reaction Diffusion Networks. IEEE Transactions on Control of Network Systems, 2018, 5, 308-320.	3.7	29
17	Formal Control of Traffic Systems via Network Decomposition. , 2018, , .		2
18	On the use of genetic algorithms for synthesis of signal temporal logic formulas. , 2018, , .		3

#	Article	IF	Citations
19	Efficient Online Monitoring and Formula Synthesis with Past STL. , 2018, , .		6
20	Formal Methods for Discrete-Time Dynamical Systems. Studies in Systems, Decision and Control, 2017, , .	1.0	204
21	Synthesis of formal control strategies for traffic networks via partitioning. , 2017, , .		0
22	Largest Finite Satisfying Region. Studies in Systems, Decision and Control, 2017, , 47-79.	1.0	0
23	Parameter Synthesis. Studies in Systems, Decision and Control, 2017, , 141-161.	1.0	0
24	Language Guided Controller Synthesis. Studies in Systems, Decision and Control, 2017, , 205-230.	1.0	0
25	Model Checking. Studies in Systems, Decision and Control, 2017, , 41-46.	1.0	0
26	Finite Temporal Logic Control. Studies in Systems, Decision and Control, 2017, , 81-108.	1.0	1
27	Temporal Logic Control. Studies in Systems, Decision and Control, 2017, , 163-183.	1.0	0
28	Largest Satisfying Region. Studies in Systems, Decision and Control, 2017, , 119-139.	1.0	1
29	Transition Systems. Studies in Systems, Decision and Control, 2017, , 3-25.	1.0	1
30	Optimal Temporal Logic Control. Studies in Systems, Decision and Control, 2017, , 231-256.	1.0	0
31	Discrete-Time Dynamical Systems. Studies in Systems, Decision and Control, 2017, , 111-118.	1.0	3
32	Traffic Network Control From Temporal Logic Specifications. IEEE Transactions on Control of Network Systems, 2016, 3, 162-172.	3.7	46
33	Controlling a network of signalized intersections from temporal logical specifications. , 2015, , .		11
34	Temporal logic model predictive control. Automatica, 2015, 56, 78-85.	5.0	16
35	An additive cost approach to optimal Temporal Logic control. , 2014, , .		0
36	Finite Bisimulations for Switched Linear Systems. IEEE Transactions on Automatic Control, 2014, 59, 3122-3134.	5.7	16

#	Article	IF	Citations
37	Temporal logic inference for classification and prediction from data. , 2014, , .		73
38	Language-Guided Controller Synthesis for Linear Systems. IEEE Transactions on Automatic Control, 2014, 59, 1163-1176.	5.7	29
39	A formal methods approach to pattern synthesis in reaction diffusion systems. , 2014, , .		26
40	Time-constrained temporal logic control of multi-affine systems. Nonlinear Analysis: Hybrid Systems, 2013, 10, 21-33.	3.5	11
41	Temporal logic model predictive control for discrete-time systems. , 2013, , .		5
42	Data-driven verification of synthetic gene networks. , 2013, , .		0
43	A Plume Tracking Algorithm Based on Crosswind Formations. Springer Tracts in Advanced Robotics, 2013, , 91-102.	0.4	13
44	Language-guided controller synthesis for discrete-time linear systems. , 2012, , .		15
45	Finite bisimulations for switched linear systems. , 2012, , .		9
46	Experimentally driven verification of synthetic biological circuits. , 2012, , .		4
47	Time-Constrained Temporal Logic Control of Multi-Affine Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 102-107.	0.4	7
48	Locomotion Gait Optimization For Modular Robots; Coevolving Morphology and Control. Procedia Computer Science, 2011, 7, 320-322.	2.0	3
49	Control synthesis for parametric timed automata under reachability. Turkish Journal of Electrical Engineering and Computer Sciences, 0, , 1751-1764.	1.4	0