

Xiang Yin

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

1,472
citations

279798

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73
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73
times ranked

437
citing authors

#	ARTICLE	IF	CITATIONS
1	A Uniform Approach for Synthesizing Property-Enforcing Supervisors for Partially-Observed Discrete-Event Systems. IEEE Transactions on Automatic Control, 2016, 61, 2140-2154.	5.7	131
2	Synthesis of Maximally Permissive Supervisors for Partially-Observed Discrete-Event Systems. IEEE Transactions on Automatic Control, 2016, 61, 1239-1254.	5.7	89
3	A new approach for the verification of infinite-step and K -step opacity using two-way observers. Automatica, 2017, 80, 162-171.	5.0	89
4	Visual-Manual Distraction Detection Using Driving Performance Indicators With Naturalistic Driving Data. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2528-2535.	8.0	61
5	Infinite-step opacity and K -step opacity of stochastic discrete-event systems. Automatica, 2019, 99, 266-274.	5.0	54
6	Opacity Enforcement Using Nondeterministic Publicly Known Edit Functions. IEEE Transactions on Automatic Control, 2019, 64, 4369-4376.	5.7	52
7	Codiagnosability and coobservability under dynamic observations: Transformation and verification. Automatica, 2015, 61, 241-252.	5.0	46
8	Decentralized fault prognosis of discrete event systems with guaranteed performance bound. Automatica, 2016, 69, 375-379.	5.0	46
9	Enforcing opacity by insertion functions under multiple energy constraints. Automatica, 2019, 108, 108476.	5.0	46
10	On the Decidability and Complexity of Diagnosability for Labeled Petri Nets. IEEE Transactions on Automatic Control, 2017, 62, 5931-5938.	5.7	44
11	Reliable Decentralized Fault Prognosis of Discrete-Event Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1598-1603.	9.3	41
12	Synthesis of Maximally-Permissive Supervisors for the Range Control Problem. IEEE Transactions on Automatic Control, 2017, 62, 3914-3929.	5.7	39
13	Opacity of Nondeterministic Transition Systems: A (Bi)Simulation Relation Approach. IEEE Transactions on Automatic Control, 2019, 64, 5116-5123.	5.7	38
14	On Approximate Opacity of Cyber-Physical Systems. IEEE Transactions on Automatic Control, 2021, 66, 1630-1645.	5.7	38
15	Initial-state detectability of stochastic discrete-event systems with probabilistic sensor failures. Automatica, 2017, 80, 127-134.	5.0	36
16	Supervisor Synthesis for Mealy Automata With Output Functions: A Model Transformation Approach. IEEE Transactions on Automatic Control, 2017, 62, 2576-2581.	5.7	35
17	Verification of Prognosability for Labeled Petri Nets. IEEE Transactions on Automatic Control, 2018, 63, 1828-1834.	5.7	30
18	Decentralized Fault Prognosis of Discrete-Event Systems Using State-Estimate-Based Protocols. IEEE Transactions on Cybernetics, 2019, 49, 1302-1313.	9.5	30

#	ARTICLE	IF	CITATIONS
19	Synthesis of Dynamic Masks for Infinite-Step Opacity. IEEE Transactions on Automatic Control, 2020, 65, 1429-1441.	5.7	30
20	Robust Fault Diagnosis of Stochastic Discrete Event Systems. IEEE Transactions on Automatic Control, 2019, 64, 4237-4244.	5.7	28
21	Complexity of detectability, opacity and A-diagnosability for modular discrete event systems. Automatica, 2019, 101, 290-295.	5.0	28
22	A general approach for optimizing dynamic sensor activation for discrete event systems. Automatica, 2019, 105, 376-383.	5.0	26
23	Minimization of Sensor Activation in Decentralized Discrete-Event Systems. IEEE Transactions on Automatic Control, 2018, 63, 3705-3718.	5.7	25
24	Verification complexity of a class of observational properties for modular discrete events systems. Automatica, 2017, 83, 199-205.	5.0	23
25	Secure-by-construction synthesis of cyber-physical systems. Annual Reviews in Control, 2022, 53, 30-50.	7.9	22
26	Deciding detectability for labeled Petri nets. Automatica, 2019, 104, 238-241.	5.0	20
27	Verification and enforcement of strong infinite- and k -step opacity using state recognizers. Automatica, 2021, 133, 109838.	5.0	20
28	Security-preserving multi-agent coordination for complex temporal logic tasks. Control Engineering Practice, 2022, 123, 105130.	5.5	20
29	Optimal supervisory control with mean payoff objectives and under partial observation. Automatica, 2021, 123, 109359.	5.0	19
30	A general approach for solving dynamic sensor activation problems for a class of properties. , 2015, , .		16
31	Decentralized Supervisory Control With Intersection-Based Architecture. IEEE Transactions on Automatic Control, 2016, 61, 3644-3650.	5.7	15
32	Verification of Opacity in Networked Supervisory Control Systems with Insecure Control Channels. , 2018, , .		15
33	Training Drift Counteraction Optimal Control Policies Using Reinforcement Learning: An Adaptive Cruise Control Example. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2903-2912.	8.0	14
34	Trajectory detectability of discrete-event systems. Systems and Control Letters, 2018, 119, 101-107.	2.3	14
35	Online Supervisory Control of Networked Discrete Event Systems With Control Delays. IEEE Transactions on Automatic Control, 2022, 67, 2314-2329.	5.7	12
36	Synthesis of maximally permissive non-blocking supervisors for partially observed discrete event systems. , 2014, , .		11

#	ARTICLE	IF	CITATIONS
37	Synthesis of Maximally Permissive Nonblocking Supervisors for the Lower Bound Containment Problem. IEEE Transactions on Automatic Control, 2018, 63, 4435-4441.	5.7	11
38	Opacity of Networked Supervisory Control Systems Over Insecure Communication Channels. IEEE Transactions on Control of Network Systems, 2021, 8, 884-896.	3.7	11
39	A Belief-Evolution-Based Approach for Online Control of Fuzzy Discrete-Event Systems Under Partial Observation. IEEE Transactions on Fuzzy Systems, 2017, 25, 1830-1836.	9.8	10
40	Opacity Enforcing Supervisory Control Using Nondeterministic Supervisors. IEEE Transactions on Automatic Control, 2022, 67, 6567-6582.	5.7	10
41	A New Microscopic Traffic Model Using a Spring-Mass-Damper-Clutch System. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 3322-3331.	8.0	9
42	Local Mean Payoff Supervisory Control for Discrete Event Systems. IEEE Transactions on Automatic Control, 2022, 67, 2282-2297.	5.7	9
43	Opacity of Networked Supervisory Control Systems over Insecure Multiple Channel Networks. , 2019, , .		8
44	Opacity Enforcement by Insertion Functions under Energy Constraints. IFAC-PapersOnLine, 2018, 51, 291-297.	0.9	7
45	Abstraction-Based Synthesis of Opacity-Enforcing Controllers using Alternating Simulation Relations. , 2019, , .		7
46	Infinite-step opacity of stochastic discrete-event systems. , 2017, , .		6
47	Mean Payoff Supervisory Control Under Partial Observation. , 2018, , .		6
48	Recent advances on formal methods for safety and security of cyber-physical systems. Control Theory and Technology, 2020, 18, 459-461.	1.6	6
49	Marking Predictability and Prediction in Labeled Petri Nets. IEEE Transactions on Automatic Control, 2021, 66, 3608-3623.	5.7	6
50	Secure-by-Construction Controller Synthesis for Stochastic Systems under Linear Temporal Logic Specifications. , 2021, , .		6
51	Towards approximate opacity of cyber-physical system. , 2019, , .		5
52	Online Supervisory Control of Networked Discrete-Event Systems with Control Delays. , 2019, , .		5
53	Opacity Enforcing Supervisory Control using Non-deterministic Supervisors. IFAC-PapersOnLine, 2020, 53, 1763-1769.	0.9	5
54	A framework for current-state opacity under dynamic information release mechanism. Automatica, 2022, 140, 110238.	5.0	5

#	ARTICLE	IF	CITATIONS
55	Minimization of sensor activation in decentralized fault diagnosis of discrete event systems. , 2015, , .		4
56	On two-way observer and its application to the verification of infinite-step and K-step opacity. , 2016, , .		4
57	Supervisory Control under Local Mean Payoff Constraints. , 2019, , .		4
58	An improved approach for verifying delayed detectability of discrete-event systems. Automatica, 2021, 124, 109291.	5.0	4
59	Synthesis of Dynamic Masks for Infinite-Step Opacity. IFAC-PapersOnLine, 2018, 51, 343-348.	0.9	3
60	Corrections to "On the Decidability and Complexity of Diagnosability for Labeled Petri Nets"[Nov 17 5931-5938]. IEEE Transactions on Automatic Control, 2019, 64, 1768-1768.	5.7	2
61	Supervisory Control for Delayed Detectability of Discrete Event Systems. , 2019, , .		2
62	Note that each information-Supervisory Control of Discrete-Event Systems for Infinite-Step Opacity. , 2020, , .		2
63	Optimal Stabilization of Discrete Event Systems with Guaranteed Worst Cost. IFAC-PapersOnLine, 2020, 53, 1741-1746.	0.9	2
64	Local Mean Payoff Supervisory Control under Partial Observation. IFAC-PapersOnLine, 2020, 53, 390-396.	0.9	2
65	Verification of Coprognosability in Decentralized Fault Prognosis of Labeled Petri Nets. , 2018, , .		1
66	Authors'™ Reply to "Comments on "A new approach for the verification of infinite-step and K-step opacity using two-way observers"[Automatica, 2017(80)162-171]" Automatica, 2021, 124, 109273.	5.0	1
67	A Game-Theoretical Approach for Optimal Supervisory Control of Discrete Event Systems for Cyclic Tasks. , 2021, , .		1
68	Maximally Permissive Supervisory Control of Timed Discrete-Event Systems under Partial Observation. IFAC-PapersOnLine, 2020, 53, 1770-1775.	0.9	0
69	Modeling, Analysis and Control of Networked Discrete Event Systems: A Comprehensive Survey. , 2020, , .		0
70	Distributed Sensing and Information Transmission of Discrete-Event Systems with Edge Sensors. , 2021, , .		0
71	Modeling and Analysis of Networked Supervisory Control Systems with Multiple Control Channels. , 2021, , .		0
72	Supervisory Control for Stabilization under Multiple Local Average Payoff Constraints. , 2021, , .		0