Zhou He

List of Publications by Year
in descending order

49 papers	1,551 citations	430442 18 h-index	301761 39 g-index
49 all docs	49 docs citations	49 times ranked	523 citing authors

#	ARTICLE	IF	CITATIONS
1	Deadlock Control of Automated Manufacturing Systems Based on Petri Nets—A Literature Review. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 437-462.	3.3	249
2	Verification of State-Based Opacity Using Petri Nets. IEEE Transactions on Automatic Control, 2017, 62, 2823-2837.	3.6	199
3	Design of Optimal Petri Net Controllers for Disjunctive Generalized Mutual Exclusion Constraints. IEEE Transactions on Automatic Control, 2015, 60, 1774-1785.	3.6	107
4	Dynamic Low-Power Reconfiguration of Real-Time Systems With Periodic and Probabilistic Tasks. IEEE Transactions on Automation Science and Engineering, 2015, 12, 258-271.	3.4	107
5	Robust Deadlock Control for Automated Manufacturing Systems With Unreliable Resources Based on Petri Net Reachability Graphs. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1371-1385.	5.9	83
6	Model-based fault identification of discrete event systems using partially observed Petri nets. Automatica, 2018, 96, 201-212.	3.0	74
7	Characterization of Admissible Marking Sets in Petri Nets With Conflicts and Synchronizations. IEEE Transactions on Automatic Control, 2017, 62, 1329-1341.	3.6	68
8	On the Equivalence of Observation Structures for Petri Net Generators. IEEE Transactions on Automatic Control, 2016, 61, 2448-2462.	3.6	66
9	Current-state opacity enforcement in discrete event systems under incomparable observations. Discrete Event Dynamic Systems: Theory and Applications, 2018, 28, 161-182.	0.6	64
10	Fault Identification of Discrete Event Systems Modeled by Petri Nets With Unobservable Transitions. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 333-345.	5.9	56
11	Decidability of opacity verification problems in labeled Petri net systems. Automatica, 2017, 80, 48-53.	3.0	54
12	Optimal Priority-Free Conditionally-Preemptive Real-Time Scheduling of Periodic Tasks Based on DES Supervisory Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1082-1098.	5.9	35
13	On Algebraic Identification of Critical States for Deadlock Control in Automated Manufacturing Systems Modeled With Petri Nets. IEEE Access, 2019, 7, 121332-121349.	2.6	30
14	Optimal Petri-Net Controller for Avoiding Collisions in a Class of Automated Guided Vehicle Systems. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4526-4537.	4.7	29
15	Optimization of Deterministic Timed Weighted Marked Graphs. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1084-1095.	3.4	26
16	Synthesis of Supervisory Control With Partial Observation on Normal State-Tree Structures. IEEE Transactions on Automation Science and Engineering, 2019, 16, 984-997.	3.4	26
17	Stealthy Attacks for Partially-Observed Discrete Event Systems. , 2018, , .		23
18	Performance Optimization for Timed Weighted Marked Graphs Under Infinite Server Semantics. IEEE Transactions on Automatic Control, 2018, 63, 2573-2580.	3.6	19

#	ARTICLE	IF	CITATIONS
19	Cycle Time Optimization of Deterministic Timed Weighted Marked Graphs by Transformation. IEEE Transactions on Control Systems Technology, 2017, 25, 1318-1330.	3.2	18
20	Supervisory control of state-tree structures with partial observation. Information Sciences, 2018, 465, 523-544.	4.0	17
21	State-based fault diagnosis of discrete-event systems with partially observable outputs. Information Sciences, 2020, 529, 87-100.	4.0	16
22	Marking Estimation in a Class of Time Labeled Petri Nets. IEEE Transactions on Automatic Control, 2020, 65, 493-506.	3.6	15
23	Path Planning of Multi-Robot Systems With Boolean Specifications Based on Simulated Annealing. IEEE Robotics and Automation Letters, 2022, 7, 6091-6098.	3.3	15
24	Priority-free conditionally-preemptive scheduling of modular sporadic real-time systems. Automatica, 2018, 89, 392-397.	3.0	13
25	Some Remarks on â€œState Estimation and Fault Diagnosis of Labeled Time Petri Net Systems With Unobservable Transitionsâ€. IEEE Transactions on Automatic Control, 2019, 64, 5253-5259.	3.6	13
26	K-Codiagnosability Verification of Labeled Petri Nets. IEEE Access, 2019, 7, 185055-185062.	2.6	13
27	Closed-Loop Deadlock-Free Supervision for GMECs in Time Petri Net Systems. IEEE Transactions on Automatic Control, 2021, 66, 5326-5341.	3.6	13
28	Real-Time Scheduling Based on Nonblocking Supervisory Control of State-Tree Structures. IEEE Transactions on Automatic Control, 2021, 66, 4230-4237.	3.6	11
29	Deadlock and liveness characterization for a class of generalized Petri nets. Information Sciences, 2017, 420, 403-416.	4.0	10
30	Deadlock Control and Fault Detection and Treatment in Reconfigurable Manufacturing Systems Using Colored Resource-Oriented Petri Nets Based on Neural Network. IEEE Access, 2021, 9, 84932-84947.	2.6	9
31	Resource Configuration Analysis for a Class of Petri Nets Based on Strongly Connected Characteristic Resource Subnets. IEEE Access, 2017, 5, 26376-26386.	2.6	8
32	Performance safety enforcement in stochastic event graphs against boost and slow attacks. Nonlinear Analysis: Hybrid Systems, 2021, 41, 101057.	2.1	8
33	Path Planning of Multi-Type Robot Systems with Time Windows Based on Timed Colored Petri Nets. Applied Sciences (Switzerland), 2022, 12, 6878.	1.3	8
34	Marking optimization of deterministic timed weighted marked graphs. , 2014, , .		7
35	Path planning for automated guided vehicle systems with time constraints using timed Petri nets. Measurement and Control, 2020, 53, 2030-2040.	0.9	7
36	Most permissive liveness-enforcing Petri net supervisors for discrete event systems via linear monitors. ISA Transactions, 2019, 92, 145-154.	3.1	6

#	Article	IF	Citations
37	An approach for enforcing a class of GMECs on time Petri nets with uncontrollable transitions. Information Sciences, 2021, 580, 897-916.	4.0	6
38	SCT-based priority-free conditionally-preemptive scheduling of modular real-time systems with exact task execution time. Discrete Event Dynamic Systems: Theory and Applications, 2019, 29, 501-520.	0.6	4
39	Surface Slip Deformation Characteristics of Nickel-Base Single Crystal Thin Plates With Film Cooling Holes. IEEE Access, 2020, 8, 75145-75153.	2.6	4
40	Cycle time optimization of deterministic timed weighted marked graphs. , 2015, , .		3
41	Firing Rate Optimization of Deterministic Timed Event Graphs by Server Performance Improvement. IEEE Access, 2018, 6, 70866-70873.	2.6	3
42	An improved approach for marking optimization of timed weighted marked graphs. Discrete Event Dynamic Systems: Theory and Applications, 2019, 29, 127-143.	0.6	3
43	Codiagnosability Enforcement in Labeled Petri Nets. IEEE Transactions on Automatic Control, 2023, 68, 2436-2443.	3.6	3
44	Supervisory Control in Partially Observable Petri Nets with Sensor Reduction. , 2019, , .		2
45	Marking optimization of deterministic timed weighted marked graphs under infinite server semantics. , 2016, , .		1
46	Optimization of deterministic timed weighted marked graphs. , 2017, , .		0
47	Liveness characteristic analysis of a class of Petri nets. Advances in Mechanical Engineering, 2018, 10, 168781401878148.	0.8	0
48	Optimistic Fault Diagnosis in Discrete Event Systems by Labeled Petri Nets and Basis Markings. International Journal of Control, Automation and Systems, 0, , .	1.6	0
49	Supervisory Control of Automated Manufacturing Systems Based on State-Tree Structures. Symmetry, 2022, 14, 1470.	1.1	0