

# Shouguang Wang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56

papers

872

citations

16

h-index

27

g-index

69

ext. papers

1,014

ext. citations

4.5

avg, IF

4.82

L-index

#	Paper	IF	Citations
56	Computation of Minimal Siphons in Petri Nets Using Problem Partitioning Approaches. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2022</b> , 9, 329-338	7	2
55	Supervisory Control of Petri Nets in the Presence of Replacement Attacks. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	6
54	A Liveness-Enforcing Supervisor Tolerant to Sensor-Reading Modification Attacks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-14	7.3	4
53	Computation of an emptiable minimal siphon in a subclass of Petri nets using mixed-integer programming. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2020</b> , 1-8	7	12
52	A Survey of Network Attacks on Cyber-Physical Systems. <i>IEEE Access</i> , <b>2020</b> , 8, 44219-44227	3.5	22
51	. <i>IEEE Access</i> , <b>2020</b> , 8, 48731-48741	3.5	4
50	A Deadlock Prevention Policy for a Class of Multithreaded Software. <i>IEEE Access</i> , <b>2020</b> , 8, 16676-16688	3.5	19
49	SVM-BiLSTM: A Fault Detection Method for the Gas Station IoT System Based on Deep Learning. <i>IEEE Access</i> , <b>2020</b> , 8, 203712-203723	3.5	2
48	A Siphon-Based Deadlock Prevention Strategy for S3PR. <i>IEEE Access</i> , <b>2019</b> , 7, 86863-86873	3.5	34
47	Repair Process Models Containing Non-Free-Choice Structures Based on Logic Petri Nets. <i>IEEE Access</i> , <b>2019</b> , 7, 105132-105145	3.5	1
46	Maximal Good Step Graph Methods for Reducing the Generation of the State Space. <i>IEEE Access</i> , <b>2019</b> , 7, 155805-155817	3.5	4
45	An MIP-Based Deadlock Prevention Policy for Siphon Control. <i>IEEE Access</i> , <b>2019</b> , 7, 153782-153790	3.5	5
44	Verification of Fault-predictability in Labeled Petri Nets Using Predictor Graphs. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 4353-4360	5.9	15
43	K-Codiagnosability Verification of Labeled Petri Nets. <i>IEEE Access</i> , <b>2019</b> , 7, 185055-185062	3.5	11
42	Supervisory control of a class of Petri nets with unobservable and uncontrollable transitions. <i>Information Sciences</i> , <b>2019</b> , 501, 635-654	7.7	7
41	An Approach for Enumerating Minimal Siphons in a Subclass of Petri Nets. <i>IEEE Access</i> , <b>2018</b> , 6, 4255-4265	3.5	36
40	An Improved Mixed-Integer Programming Method to Compute Emptiable Minimal Siphons in S3PR Nets. <i>IEEE Transactions on Control Systems Technology</i> , <b>2018</b> , 26, 2135-2140	4.8	8

39	Fault Diagnosis in Partially Observed Petri Nets Using Redundancies. <i>IEEE Access</i> , <b>2018</b> , 6, 7541-7556	3.5	12
38	Event Feedback Supervision for a Class of Petri Nets With Unobservable Transitions. <i>IEEE Access</i> , <b>2018</b> , 6, 6920-6926	3.5	9
37	A Novel Approach for Constraint Transformation in Petri Nets With Uncontrollable Transitions. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2018</b> , 48, 1403-1410	7.3	44
36	An Algorithm of Recognizing Unbounded Petri Nets With Semilinear Reachability Sets and Constructing Their Reachability Trees. <i>IEEE Access</i> , <b>2018</b> , 6, 43732-43742	3.5	2
35	New reachability trees for analyzing unbounded Petri nets with semilinear reachability sets. <i>Science China Information Sciences</i> , <b>2018</b> , 61, 1	3.4	4
34	Liveness Enforcement for a Class of Petri Nets via Resource Allocation <b>2018</b> ,		1
33	A Resource Allocation Approach for Enforcing Liveness on a Class of Petri Nets. <i>IEEE Access</i> , <b>2018</b> , 6, 48577-48587	3.5	3
32	Deadlock Prevention Policy for S4PR Nets Based on Siphon. <i>IEEE Access</i> , <b>2018</b> , 6, 50648-50658	3.5	7
31	Comments on Bimultaneous Reduction of Petri Nets and Linear Constraints for Efficient Supervisor Synthesis $\square$ <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 2603-2606	5.9	
30	An improved approach to test diagnosability of bounded petri nets. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2017</b> , 4, 297-303	7	42
29	A Necessary and Sufficient Condition for a Resource Subset to Generate a Strict Minimal Siphon in S 4PR. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 4173-4179	5.9	84
28	Computation of an Optimal Transformed Linear Constraint in a Class of Petri Nets With Uncontrollable Transitions. <i>IEEE Access</i> , <b>2017</b> , 5, 6780-6790	3.5	8
27	Computation of strict minimal siphons in a class of Petri nets based on problem decomposition. <i>Information Sciences</i> , <b>2017</b> , 409-410, 87-100	7.7	15
26	Fault Diagnosis for Discrete Event Systems Modeled By Bounded Petri Nets. <i>Asian Journal of Control</i> , <b>2017</b> , 19, 1532-1541	1.7	8
25	Deadlock and liveness characterization for a class of generalized Petri nets. <i>Information Sciences</i> , <b>2017</b> , 420, 403-416	7.7	10
24	A resource configuration method for liveness of a class of Petri nets. <i>IMA Journal of Mathematical Control and Information</i> , <b>2016</b> , 33, 933-950	1.1	1
23	Characterization of Admissible Marking Sets in Petri Nets with Uncontrollable Transitions. <i>IEEE Transactions on Automatic Control</i> , <b>2016</b> , 61, 1953-1958	5.9	27
22	A new linear constraint transformation approach for Petri nets with uncontrollable transitions <b>2016</b>		1

21	Optimal supervisor synthesis for petri nets with uncontrollable transitions: A bottom-up algorithm. <i>Information Sciences</i> , <b>2016</b> , 363, 261-273	7.7	12
20	Deadlock prevention policy for a class of petri nets based on complementary places and elementary siphons. <i>Journal of Intelligent Manufacturing</i> , <b>2015</b> , 26, 321-330	6.7	13
19	Simultaneous Reduction of Petri Nets and Linear Constraints for Efficient Supervisor Synthesis. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 88-103	5.9	28
18	A reduced reachability tree for a class of unbounded petri nets. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2015</b> , 2, 345-352	7	42
17	Macro liveness graph and liveness of $\Pi$ -independent unbounded nets. <i>Science China Information Sciences</i> , <b>2015</b> , 58, 1-10	3.4	16
16	Design of a Maximally Permissive Liveness-enforcing Supervisor with Reduced Complexity for Automated Manufacturing Systems. <i>Asian Journal of Control</i> , <b>2015</b> , 17, 190-201	1.7	16
15	New Controllability Condition for Siphons in $Ws3PR$ Nets. <i>Asian Journal of Control</i> , <b>2015</b> , 17, 908-916	1.7	7
14	Synthesis of Monitor-Based Liveness-Enforcing Supervisors for $S^3PR$ With $\xi$ -Resources. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2015</b> , 45, 967-975	7.3	22
13	Complete enumeration of minimal siphons in ordinary Petri nets based on problem partitioning <b>2015</b> ,		2
12	New reachability trees for unbounded Petri nets <b>2015</b> ,		7
11	Comments on $\Pi$ -liveness of an extended $S3PR$ [Automatica 46 (2010) 1008-1018]. <i>Automatica</i> , <b>2014</b> , 50, 2199-2200	5.7	5
10	Design of Optimal Monitor-Based Supervisors for a Class of Petri Nets With Uncontrollable Transitions. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2013</b> , 43, 1248-1255	7.3	34
9	Design of Liveness-Enforcing Supervisors for $S3PR$ Based on Complementary Places. <i>Transactions on Embedded Computing Systems</i> , <b>2013</b> , 12, 1-18	1.8	9
8	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2013</b> , 43, 932-940	7.3	38
7	A new reachability tree for unbounded Petri nets <b>2013</b> ,		1
6	. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , <b>2012</b> , 42, 226-237		65
5	Controllability Conditions of Resultant Siphons in a Class of Petri Nets. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , <b>2012</b> , 42, 1206-1215		50
4	An algorithm to find the minimal initial markings of resource places ensuring liveness of finite-capacity $S3PR$ . <i>International Journal of Production Research</i> , <b>2012</b> , 50, 1528-1538	7.8	9

- 3 Comments on "Siphon-Based Deadlock Prevention Policy for Flexible Manufacturing Systems. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2011**, 41, 338-340 14
- 2 A transformation algorithm for optimal admissible generalized mutual exclusion constraints on Petri nets with uncontrollable transitions **2011**, 6
- 1 A method of computing strict minimal siphons in an S3PR based on resource circuits **2010**, 4