

Naiqi Wu

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107
papers

1,779
citations

24
h-index

38
g-index

129
ext. papers

2,176
ext. citations

4.5
avg, IF

5.72
L-index

#	Paper	IF	Citations
107	Pareto-Optimization for Scheduling of Crude Oil Operations in Refinery via Genetic Algorithm. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 517-530	7.3	175
106	Short-term scheduling of crude oil operations in refinery with high-fusion-point oil and two transportation pipelines. <i>Enterprise Information Systems</i> , 2016 , 10, 581-610	3.5	100
105	Compact Supervisory Control of Discrete Event Systems by Petri Nets With Data Inhibitor Arcs. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 364-379	7.3	94
104	IoT-Enabled Real-Time Production Performance Analysis and Exception Diagnosis Model. <i>IEEE Transactions on Automation Science and Engineering</i> , 2016 , 13, 1318-1332	4.9	80
103	Petri Net Modeling and Scheduling of a Close-Down Process for Time-Constrained Single-Arm Cluster Tools. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 48, 389-400	7.3	69
102	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 49, 1371-1385	7.3	57
101	Wafer Sojourn Time Fluctuation Analysis of Time-Constrained Dual-Arm Cluster Tools With Wafer Revisiting and Activity Time Variation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 48, 622-636	7.3	55
100	How to Respond to Process Module Failure in Residency Time-Constrained Single-Arm Cluster Tools. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2014 , 27, 462-474	2.6	51
99	Integration of Learning-Based Testing and Supervisory Control for Requirements Conformance of Black-Box Reactive Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , 2018 , 15, 2-15	4.9	50
98	Scheduling Cluster Tools in Semiconductor Manufacturing: Recent Advances and Challenges. <i>IEEE Transactions on Automation Science and Engineering</i> , 2018 , 15, 586-601	4.9	49
97	. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 2518-2531	10.7	46
96	Group consensus via pinning control for a class of heterogeneous multi-agent systems with input constraints. <i>Information Sciences</i> , 2021 , 542, 247-262	7.7	46
95	A Petri Net Approach to Fault Diagnosis and Restoration for Power Transmission Systems to Avoid the Output Interruption of Substations. <i>IEEE Systems Journal</i> , 2018 , 12, 2566-2576	4.3	40
94	An Efficient Scheduling Method for Crude Oil Operations in Refinery With Crude Oil Type Mixing Requirements. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016 , 46, 413-426	7.3	38
93	Fault Identification of Discrete Event Systems Modeled by Petri Nets With Unobservable Transitions. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 49, 333-345	7.3	38
92	Improved Multi-Step Look-Ahead Control Policies for Automated Manufacturing Systems. <i>IEEE Access</i> , 2018 , 6, 68824-68838	3.5	37
91	Petri Net-Based Optimal One-Wafer Cyclic Scheduling of Hybrid Multi-Cluster Tools in Wafer Fabrication. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2014 , 27, 192-203	2.6	36

90	On Multiplexity-Aware Influence Spread in Social Networks. <i>IEEE Access</i> , 2020 , 8, 106705-106713	3.5	34
89	Scheduling and Control of Startup Process for Single-Arm Cluster Tools With Residency Time Constraints. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 1243-1256	4.8	31
88	Homomorphic Encryption of Supervisory Control Systems Using Automata. <i>IEEE Access</i> , 2020 , 8, 147185-147190	3.5	30
87	On a maximally permissive deadlock prevention policy for automated manufacturing systems by using resource-oriented Petri nets. <i>ISA Transactions</i> , 2019 , 89, 67-76	5.5	30
86	Repercussions of COVID-19 pandemic on solid waste generation and management strategies. <i>Frontiers of Environmental Science and Engineering</i> , 2021 , 15, 115	5.8	28
85	Multiple templates fabrication of hierarchical porous carbon for enhanced rate capability in potassium-ion batteries. <i>Materials Today Energy</i> , 2019 , 11, 182-191	7	28
84	On Algebraic Identification of Critical States for Deadlock Control in Automated Manufacturing Systems Modeled With Petri Nets. <i>IEEE Access</i> , 2019 , 7, 121332-121349	3.5	26
83	Diagnosability of Vector Discrete-Event Systems Using Predicates. <i>IEEE Access</i> , 2019 , 7, 147143-147155	3.5	23
82	Optimal One-Wafer Cyclic Scheduling of Single-Arm Multicluster Tools With Two-Space Buffering Modules. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2014 , 44, 1584-1597	7.3	20
81	. <i>IEEE Access</i> , 2019 , 7, 21006-21019	3.5	19
80	Performance evaluation of vehicular platoons using Webots. <i>IET Intelligent Transport Systems</i> , 2017 , 11, 441-449	2.4	18
79	Modeling and Verification of Reconfigurable and Energy-Efficient Manufacturing Systems. <i>Discrete Dynamics in Nature and Society</i> , 2015 , 2015, 1-14	1.1	18
78	Robust Scheduling of Time-Constrained Dual-Arm Cluster Tools With Wafer Revisiting and Activity Time Disturbance. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 49, 1228-1240	7.3	17
77	Exploration of Nanoporous CuBi Binary Alloy for Potassium Storage. <i>Advanced Functional Materials</i> , 2020 , 30, 2003838	15.6	17
76	. <i>IEEE Access</i> , 2018 , 6, 28028-28040	3.5	16
75	Structural Evolution upon Delithiation/Lithiation in Prelithiated Foil Anodes: A Case Study of AgLi Alloys with High Li Utilization and Marginal Volume Variation. <i>Advanced Energy Materials</i> , 2021 , 11, 2003082	21.8	15
74	Design of Optimal Petri Net Supervisors for Flexible Manufacturing Systems via Weighted Inhibitor Arcs. <i>Asian Journal of Control</i> , 2018 , 20, 511-530	1.7	14
73	Supervisory control of state-tree structures with partial observation. <i>Information Sciences</i> , 2018 , 465, 523-544	7.7	14

72	Fault Diagnosis in Partially Observed Petri Nets Using Redundancies. <i>IEEE Access</i> , 2018 , 6, 7541-7556	3.5	12
71	Reducing Wafer Delay Time by Robot Idle Time Regulation for Single-Arm Cluster Tools. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020 , 1-15	4.9	12
70	Modeling and Optimal Cyclic Scheduling of Time-Constrained Single-Robot-Arm Cluster Tools via Petri Nets and Linear Programming. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 871-883	7.3	12
69	. <i>IEEE Access</i> , 2017 , 5, 15731-15749	3.5	11
68	One-Step Control-Ahead Approach for the Design of an Optimal Petri-Net Based Deadlock Prevention Policy. <i>IEEE Access</i> , 2018 , 6, 34307-34323	3.5	10
67	Scheduling Transient Processes for Time-Constrained Single-Arm Robotic Multi-Cluster Tools. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2017 , 30, 261-269	2.6	10
66	Robust deadlock control for automated manufacturing systems based on elementary siphon theory. <i>Information Sciences</i> , 2020 , 510, 165-182	7.7	10
65	Efficient Approach to Scheduling of Transient Processes for Time-Constrained Single-Arm Cluster Tools With Parallel Chambers. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 3646-3657	7.3	10
64	Transformation of Business Process Model and Notation models onto Petri nets and their analysis. <i>Advances in Mechanical Engineering</i> , 2018 , 10, 168781401880817	1.2	10
63	IoT-based smart and complex systems: a guest editorial report. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2018 , 5, 69-73	7	9
62	Optimal enforcement of liveness to flexible manufacturing systems modeled with Petri nets via transition-based controllers. <i>Advances in Mechanical Engineering</i> , 2018 , 10, 168781401775070	1.2	9
61	A scientometric review of research on traffic forecasting in transportation. <i>IET Intelligent Transport Systems</i> , 2021 , 15, 1-16	2.4	9
60	Efficient Approach to Cyclic Scheduling of Single-Arm Cluster Tools With Chamber Cleaning Operations and Wafer Residency Time Constraint. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2018 , 31, 196-205	2.6	9
59	Deadlock analysis and control using Petri net decomposition techniques. <i>Information Sciences</i> , 2019 , 482, 440-456	7.7	8
58	A Novel Solution Approach to a Priority-Slot-Based Continuous-Time Mixed Integer Nonlinear Programming Formulation for a Crude-Oil Scheduling Problem. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 10955-10967	3.9	7
57	Wafer Residency Time Analysis for Time-Constrained Single-Robot-Arm Cluster Tools With Activity Time Variation. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 1177-1188	4.8	7
56	Two-step approach to robust deadlock control in automated manufacturing systems with multiple resource failures 2018 , 41, 452-462		7
55	. <i>IEEE Access</i> , 2019 , 7, 17760-17771	3.5	6

54	Optimal Petri Net Supervisors of Discrete Event Systems via Weighted and Data Inhibitor Arcs. <i>IEEE Access</i> , 2018 , 6, 8245-8257	3.5	6
53	A genetic algorithm approach to short-term scheduling of crude oil operations in refinery. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2016 , 11, 593-603	1	6
52	Hierarchical Colored Petri Nets for Modeling and Analysis of Transit Signal Priority Control Systems. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 141	2.6	6
51	Resource Configuration Analysis for a Class of Petri Nets Based on Strongly Connected Characteristic Resource Subnets. <i>IEEE Access</i> , 2017 , 5, 26376-26386	3.5	6
50	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 5015-5023	7.3	6
49	. <i>IEEE Access</i> , 2019 , 7, 186378-186392	3.5	6
48	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 1612-1629	7.3	6
47	Automatic supervisory control for the self-healing of smart grids based on colored Petri nets. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2018 , 13, 1612-1623	1	6
46	Closing-Down Optimization for Single-Arm Cluster Tools Subject to Wafer Residency Time Constraints. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 1-16	7.3	5
45	Optimal Petri net supervisor synthesis for forbidden state problems using marking mask. <i>Information Sciences</i> , 2019 , 505, 183-197	7.7	5
44	Fault-Recovery and Repair Modeling of Discrete Event Systems Using Petri Nets. <i>IEEE Access</i> , 2020 , 8, 170237-170247	3.5	5
43	Solving Last-Mile Logistics Problem in Spatiotemporal Crowdsourcing via Role Awareness With Adaptive Clustering. <i>IEEE Transactions on Computational Social Systems</i> , 2021 , 8, 668-681	4.5	5
42	Short-Term Traffic Flow Forecasting Using Ensemble Approach Based on Deep Belief Networks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-14	6.1	5
41	Anomaly detection via a combination model in time series data. <i>Applied Intelligence</i> , 2021 , 51, 4874-4887	4.9	5
40	Short-Term Scheduling of Vehicle Testing System Using Object Petri Net. <i>IEEE Access</i> , 2018 , 6, 61317-61330	3.9	5
39	Most permissive liveness-enforcing Petri net supervisors for discrete event systems via linear monitors. <i>ISA Transactions</i> , 2019 , 92, 145-154	5.5	4
38	Petri Net-Based Efficient Determination of Optimal Schedules for Transport-Dominant Single-Arm Multi-Cluster Tools. <i>IEEE Access</i> , 2018 , 6, 355-365	3.5	4
37	A Deadlock Prevention Policy for Flexible Manufacturing Systems Modeled With Petri Nets Using Structural Analysis. <i>IEEE Access</i> , 2019 , 7, 49362-49376	3.5	4

36	On structural reduction of liveness-enforcing Petri net supervisors for flexible manufacturing systems: an algebraic approach. <i>IMA Journal of Mathematical Control and Information</i> , 2018 , 35, 1217-1249 ¹	4
35	A Comparative Study on Contract Recommendation Model: Using Macao Mobile Phone Datasets. <i>IEEE Access</i> , 2020 , 8, 39747-39757	3.5 3
34	. <i>IEEE Transactions on Network Science and Engineering</i> , 2020 , 7, 1545-1556	4.9 3
33	Scheduling of Crude Oil Operations in Refinery without Sufficient Charging Tanks Using Petri Nets. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 564	2.6 3
32	A Method for Construction of Software Protection Technology Application Sequence Based on Petri Net With Inhibitor Arcs. <i>IEEE Access</i> , 2018 , 6, 11988-12000	3.5 3
31	Assessment of Energy-Saving Practices of the Hospitality Industry in Macau. <i>Sustainability</i> , 2018 , 10, 2553.6	3
30	. <i>IEEE Access</i> , 2019 , 7, 88579-88591	3.5 3
29	On Hierarchical Construction of the State Space of an Automated Manufacturing System Modeled With Petri Nets. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 3613-3627	7.3 3
28	An Efficient Fault Diagnosis Approach Based on Integer Linear Programming for Labeled Petri Nets. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 2393-2398	5.9 3
27	Total completion time minimization for scheduling of two-machine flow shop with deterioration jobs and setup time. <i>Advances in Mechanical Engineering</i> , 2017 , 9, 168781401769888	1.2 2
26	Petri net-based scheduling of time constrained single-arm cluster tools with wafer revisiting. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401664650	1.2 2
25	SLNL: A novel method for gene selection and phenotype classification. <i>International Journal of Intelligent Systems</i> ,	8.4 2
24	. <i>IEEE Access</i> , 2020 , 8, 133605-133621	3.5 2
23	Confusion diagnosis and avoidance of discrete event systems using supervisory control. <i>IEEE Transactions on Electrical and Electronic Engineering</i> , 2016 , 11, 49-62	1 2
22	Wafer sojourn time fluctuation analysis for time-constrained dual-arm multi-cluster tools with activity time variation. <i>International Journal of Computer Integrated Manufacturing</i> , 2020 , 1-17	4.3 1
21	Fault diagnosis in DESs modeled by partially observed Petri nets 2016 ,	1
20	Equivalent Transformation of Nonlinear Constraints to Linear Constraints in Petri Nets. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-11	1.1 1
19	An approximate algorithm for the Lane Reservation Problem in Time Constrained Transportation 2010 ,	1

18	An Efficient Binary Integer Programming Model for Residency Time-Constrained Cluster Tools With Chamber Cleaning Requirements. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 1-15	4.9	1
17	. <i>IEEE Access</i> , 2021 , 9, 163504-163515	3.5	1
16	An Efficient Method of Deadlock Detection and Recovery for Flexible Manufacturing Systems by Resource Flow Graphs. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 1-12	4.9	1
15	Wafer Reflectance Prediction for Complex Etching Process Based on K-Means Clustering and Neural Network. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2021 , 34, 207-216	2.6	1
14	. <i>IEEE Access</i> , 2021 , 9, 70868-70883	3.5	1
13	State Space Characterization of Disjunctive Single-Unit Resource Allocation Systems. <i>IEEE Access</i> , 2018 , 6, 51515-51527	3.5	1
12	Improved Meta-Heuristics for Solving Distributed Lot-Streaming Permutation Flow Shop Scheduling Problems. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022 , 1-11	4.9	1
11	A Petri Net-Based Heuristic Algorithm for Short-Term Vehicle Scheduling in a Vehicle Inspection System. <i>IEEE Access</i> , 2019 , 7, 138442-138460	3.5	0
10	Scheduling of Single-Arm Cluster Tools with Residency Time Constraints and Chamber Cleaning Operations. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 9193	2.6	0
9	Fault Diagnosis of Backward Conflict-Free Petri Nets by Generalized Markings. <i>IEEE Access</i> , 2020 , 8, 154874-154880	3.5	0
8	Route Choice Behavior Modeling for Emergency Evacuation and Efficiency Analysis Based on Type-II Fuzzy Theory. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-16	6.1	0
7	On Optimal Supervisor Design for Discrete-Event Systems Modeled With Petri Nets via Constraint Simplification. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-15	7.3	0
6	Symbolic Verification of Current-State Opacity of Discrete Event Systems Using Petri Nets. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022 , 1-14	7.3	0
5	A Novel Control-Theory-Based Approach to Scheduling of High-Throughput Screening System for Enzymatic Assay. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022 , 1-12	7.3	0
4	Confusion Control in Generalized Petri Nets Using Synchronized Events. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-23	1.1	
3	. <i>IEEE Access</i> , 2021 , 9, 142664-142680	3.5	
2	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 4347-4358	7.3	
1	Optimally Scheduling Dual-Arm Multi-Cluster Tools to Process Two Wafer Types. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 5920-5927	4.2	

