

Zhiwu Li

List of Publications by Year in descending order

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549
papers

14,962
citations

18436

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568
all docs

568
docs citations

568
times ranked

5032
citing authors

#	ARTICLE	IF	CITATIONS
1	Elementary Siphons of Petri Nets and Their Application to Deadlock Prevention in Flexible Manufacturing Systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2004, 34, 38-51.	3.4	594
2	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
3	A Survey and Comparison of Petri Net-Based Deadlock Prevention Policies for Flexible Manufacturing Systems. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2008, 38, 173-188.	3.3	241
4	Design of a Maximally Permissive Liveness-Enforcing Petri Net Supervisor for Flexible Manufacturing Systems. IEEE Transactions on Automation Science and Engineering, 2011, 8, 374-393.	3.4	237
5	Improving Risk Evaluation in FMEA With Cloud Model and Hierarchical TOPSIS Method. IEEE Transactions on Fuzzy Systems, 2019, 27, 84-95.	6.5	227
6	Two-Stage Method for Synthesizing Liveness-Enforcing Supervisors for Flexible Manufacturing Systems Using Petri Nets. IEEE Transactions on Industrial Informatics, 2006, 2, 313-325.	7.2	224
7	Pareto-Optimization for Scheduling of Crude Oil Operations in Refinery via Genetic Algorithm. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 517-530.	5.9	223
8	A Maximally Permissive Deadlock Prevention Policy for FMS Based on Petri Net Siphon Control and the Theory of Regions. IEEE Transactions on Automation Science and Engineering, 2008, 5, 182-188.	3.4	217
9	Resource-Oriented Petri Net for Deadlock Avoidance in Flexible Assembly Systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2008, 38, 56-69.	3.4	199
10	Verification of State-Based Opacity Using Petri Nets. IEEE Transactions on Automatic Control, 2017, 62, 2823-2837.	3.6	199
11	Design of a maximally permissive liveness-enforcing supervisor with a compressed supervisory structure for flexible manufacturing systems. Automatica, 2011, 47, 1028-1034.	3.0	196
12	On Controllability of Dependent Siphons for Deadlock Prevention in Generalized Petri Nets. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2008, 38, 369-384.	3.4	193
13	Control of Elementary and Dependent Siphons in Petri Nets and Their Application. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2008, 38, 133-148.	3.4	187
14	Operation patterns analysis of automotive components remanufacturing industry development in China. Journal of Cleaner Production, 2017, 164, 1363-1375.	4.6	174
15	Fuzzy Petri nets for knowledge representation and reasoning: A literature review. Engineering Applications of Artificial Intelligence, 2017, 60, 45-56.	4.3	170
16	A new integrated MCDM model for sustainable supplier selection under interval-valued intuitionistic uncertain linguistic environment. Information Sciences, 2019, 486, 254-270.	4.0	148
17	Optimal Supervisory Control of Flexible Manufacturing Systems by Petri Nets: A Set Classification Approach. IEEE Transactions on Automation Science and Engineering, 2014, 11, 549-563.	3.4	144
18	Deadlock Prevention Based on Structure Reuse of Petri Net Supervisors for Flexible Manufacturing Systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 178-191.	3.4	142

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19	Short-Term Scheduling of Crude-Oil Operations: Enhancement of Crude-Oil Operations Scheduling Using a Petri Net-Based Control-Theoretic Approach. IEEE Robotics and Automation Magazine, 2015, 22, 64-76.	2.2	138
20	Improved Fuzzy Bayesian Network-Based Risk Analysis With Interval-Valued Fuzzy Sets and Dê€S Evidence Theory. IEEE Transactions on Fuzzy Systems, 2020, 28, 2063-2077.	6.5	130
21	Optimal One-Wafer Cyclic Scheduling and Buffer Space Configuration for Single-Arm Multicluster Tools With Linear Topology. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1456-1467.	5.9	125
22	Containment of rumor spread in complex social networks. Information Sciences, 2020, 506, 113-130.	4.0	119
23	AHP, Gray Correlation, and TOPSIS Combined Approach to Green Performance Evaluation of Design Alternatives. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1093-1105.	5.9	116
24	Scheduling of Single-Arm Cluster Tools for an Atomic Layer Deposition Process With Residency Time Constraints. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 502-516.	5.9	115
25	Dynamic Multiple-Period Reconfiguration of Real-Time Scheduling Based on Timed DES Supervisory Control. IEEE Transactions on Industrial Informatics, 2016, 12, 101-111.	7.2	113
26	Short-term scheduling of crude oil operations in refinery with high-fusion-point oil and two transportation pipelines. Enterprise Information Systems, 2016, 10, 581-610.	3.3	113
27	New Petri Net Structure and Its Application to Optimal Supervisory Control: Interval Inhibitor Arcs. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 1384-1400.	5.9	112
28	Compact Supervisory Control of Discrete Event Systems by Petri Nets With Data Inhibitor Arcs. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 364-379.	5.9	111
29	Reconfigurable Coordination of Distributed Discrete Event Control Systems. IEEE Transactions on Control Systems Technology, 2015, 23, 323-330.	3.2	108
30	Design of Optimal Petri Net Controllers for Disjunctive Generalized Mutual Exclusion Constraints. IEEE Transactions on Automatic Control, 2015, 60, 1774-1785.	3.6	107
31	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
32	Basis Marking Representation of Petri Net Reachability Spaces and Its Application to the Reachability Problem. IEEE Transactions on Automatic Control, 2017, 62, 1078-1093.	3.6	106
33	An adaptive Lagrangian relaxation-based algorithm for a coordinated water supply and wastewater collection network design problem. Information Sciences, 2020, 512, 1335-1359.	4.0	105
34	On Siphon Computation for Deadlock Control in a Class of Petri Nets. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2008, 38, 667-679.	3.4	103
35	On the enforcement of a class of nonlinear constraints on Petri nets. Automatica, 2015, 55, 116-124.	3.0	101
36	Behaviorally Optimal and Structurally Simple Liveness-Enforcing Supervisors of Flexible Manufacturing Systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 615-629.	3.4	99

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37	Identification and elimination of redundant control places in petri net based liveness enforcing supervisors of FMS. International Journal of Advanced Manufacturing Technology, 2007, 35, 150-168.	1.5	98
38	Deadlock recovery for flexible manufacturing systems modeled with Petri nets. Information Sciences, 2017, 381, 290-303.	4.0	97
39	Petri net-based approach to short-term scheduling of crude oil operations with less tank requirement. Information Sciences, 2017, 417, 247-261.	4.0	96
40	A divide-and-conquer-method for the synthesis of liveness enforcing supervisors for flexible manufacturing systems. Journal of Intelligent Manufacturing, 2016, 27, 1111-1129.	4.4	93
41	Target Disassembly Sequencing and Scheme Evaluation for CNC Machine Tools Using Improved Multiobjective Ant Colony Algorithm and Fuzzy Integral. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2438-2451.	5.9	90
42	Deadlock-Free Control of Automated Manufacturing Systems With Flexible Routes and Assembly Operations Using Petri Nets. IEEE Transactions on Industrial Informatics, 2013, 9, 109-121.	7.2	89
43	A stacking-based ensemble learning method for earthquake casualty prediction. Applied Soft Computing Journal, 2021, 101, 107038.	4.1	87
44	Liveness of an extended S3PR. Automatica, 2010, 46, 1008-1018.	3.0	85
45	Decentralized Supervision of Petri Nets With a Coordinator. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 955-966.	5.9	85
46	A hybrid multi-objective optimization approach for energy-absorbing structures in train collisions. Information Sciences, 2019, 481, 491-506.	4.0	84
47	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
48	Group consensus via pinning control for a class of heterogeneous multi-agent systems with input constraints. Information Sciences, 2021, 542, 247-262.	4.0	83
49	A Method to Compute Strict Minimal Siphons in a Class of Petri Nets Based on Loop Resource Subsets. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 226-237.	3.4	80
50	Environmentally friendly MCDM of reliability-based product optimisation combining DEMATEL-based ANP, interval uncertainty and Vlse Kriterijumska Optimizacija Kompromisno Resenje (VIKOR). Information Sciences, 2018, 442-443, 128-144.	4.0	79
51	Dual-objective program and improved artificial bee colony for the optimization of energy-conscious milling parameters subject to multiple constraints. Journal of Cleaner Production, 2020, 245, 118714.	4.6	78
52	Matching demanders and suppliers in knowledge service: A method based on fuzzy axiomatic design. Information Sciences, 2016, 346-347, 130-145.	4.0	75
53	Two-agent stochastic flow shop deteriorating scheduling via a hybrid multi-objective evolutionary algorithm. Journal of Intelligent Manufacturing, 2019, 30, 2257-2272.	4.4	75
54	Model-based fault identification of discrete event systems using partially observed Petri nets. Automatica, 2018, 96, 201-212.	3.0	74

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55	An Effective Algorithm to Find Elementary Siphons in a Class of Petri Nets. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2009, 39, 912-923.	3.4	73
56	Decentralized Diagnosis by Petri Nets and Integer Linear Programming. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1689-1700.	5.9	72
57	Characterization of Admissible Marking Sets in Petri Nets With Conflicts and Synchronizations. IEEE Transactions on Automatic Control, 2017, 62, 1329-1341.	3.6	68
58	Selection of take-back pattern of vehicle reverse logistics in China via Grey-DEMATEL and Fuzzy-VIKOR combined method. Journal of Cleaner Production, 2019, 220, 1088-1100.	4.6	68
59	On the Equivalence of Observation Structures for Petri Net Generators. IEEE Transactions on Automatic Control, 2016, 61, 2448-2462.	3.6	66
60	On structural minimality of optimal supervisors for flexible manufacturing systems. Automatica, 2012, 48, 2647-2656.	3.0	65
61	Flexible Process Planning and End-of-Life Decision-Making for Product Recovery Optimization Based on Hybrid Disassembly. IEEE Transactions on Automation Science and Engineering, 2019, 16, 311-326.	3.4	65
62	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
63	Liveness Enforcing Supervision of Video Streaming Systems Using Nonsequential Petri Nets. IEEE Transactions on Multimedia, 2009, 11, 1457-1465.	5.2	61
64	Design of Distributed Cyber-Physical Systems for Connected and Automated Vehicles With Implementing Methodologies. IEEE Transactions on Industrial Informatics, 2018, 14, 4200-4211.	7.2	61
65	Reversed fuzzy Petri nets and their application for fault diagnosis. Computers and Industrial Engineering, 2011, 60, 505-510.	3.4	60
66	Energy efficiency optimization in scheduling crude oil operations of refinery based on linear programming. Journal of Cleaner Production, 2017, 166, 49-57.	4.6	60
67	On-line verification of current-state opacity by Petri nets and integer linear programming. Automatica, 2018, 94, 205-213.	3.0	60
68	Granular Data Description: Designing Ellipsoidal Information Granules. IEEE Transactions on Cybernetics, 2017, 47, 4475-4484.	6.2	59
69	Anomaly detection based on a dynamic Markov model. Information Sciences, 2017, 411, 52-65.	4.0	59
70	Integration of Learning-Based Testing and Supervisory Control for Requirements Conformance of Black-Box Reactive Systems. IEEE Transactions on Automation Science and Engineering, 2018, 15, 2-15.	3.4	59
71	Low-Cost and High-Performance Supervision in Ratio-Enforced Automated Manufacturing Systems Using Timed Petri Nets. IEEE Transactions on Automation Science and Engineering, 2010, 7, 933-944.	3.4	58
72	Linguistic Petri Nets Based on Cloud Model Theory for Knowledge Representation and Reasoning. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 717-728.	4.0	58

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73	Algebraic Synthesis of Timed Supervisor for Automated Manufacturing Systems Using Petri Nets. IEEE Transactions on Automation Science and Engineering, 2010, 7, 549-557.	3.4	57
74	A multi-objective supplier selection and order allocation through incremental discount in a fuzzy environment. Journal of Intelligent and Fuzzy Systems, 2019, 37, 1435-1455.	0.8	57
75	Supervisor Optimization for Deadlock Resolution in Automated Manufacturing Systems With Petri Nets. IEEE Transactions on Automation Science and Engineering, 2011, 8, 794-804.	3.4	56
76	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
77	RWiN: New Methodology for the Development of Reconfigurable WSN. IEEE Transactions on Automation Science and Engineering, 2017, 14, 109-125.	3.4	56
78	Fuzzy Grey Choquet Integral for Evaluation of Multicriteria Decision Making Problems With Interactive and Qualitative Indices. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 1-14.	5.9	55
79	Wavelet Frame-Based Fuzzy c -Means Clustering for Segmenting Images on Graphs. IEEE Transactions on Cybernetics, 2020, 50, 3938-3949.	6.2	55
80	Residual-driven Fuzzy C-Means Clustering for Image Segmentation. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 876-889.	8.5	55
81	Supervisor Design to Enforce Production Ratio and Absence of Deadlock in Automated Manufacturing Systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2011, 41, 201-212.	3.4	54
82	Decidability of opacity verification problems in labeled Petri net systems. Automatica, 2017, 80, 48-53.	3.0	54
83	A Petri Net Approach to Fault Diagnosis and Restoration for Power Transmission Systems to Avoid the Output Interruption of Substations. IEEE Systems Journal, 2018, 12, 2566-2576.	2.9	54
84	Interval-Valued Intuitionistic Uncertain Linguistic Cloud Petri Net and Its Application to Risk Assessment for Subway Fire Accident. IEEE Transactions on Automation Science and Engineering, 2022, 19, 163-177.	3.4	54
85	R-TNCES: A Novel Formalism for Reconfigurable Discrete Event Control Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 757-772.	5.9	53
86	Multi-objective scheduling of priority-based rescue vehicles to extinguish forest fires using a multi-objective discrete gravitational search algorithm. Information Sciences, 2022, 608, 578-596.	4.0	53
87	Multiobjective Bike Repositioning in Bike-Sharing Systems via a Modified Artificial Bee Colony Algorithm. IEEE Transactions on Automation Science and Engineering, 2020, 17, 909-920.	3.4	51
88	Nonpure Petri Net Supervisors for Optimal Deadlock Control of Flexible Manufacturing Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 252-265.	5.9	50
89	Neural Network-Based Distributed Cooperative Learning Control for Multiagent Systems via Event-Triggered Communication. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 407-419.	7.2	50
90	Modeling and analysis of rumor propagation in social networks. Information Sciences, 2021, 580, 857-873.	4.0	50

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91	Scheme selection of design for disassembly (DFD) based on sustainability: A novel hybrid of interval 2-tuple linguistic intuitionistic fuzzy numbers and regret theory. <i>Journal of Cleaner Production</i> , 2021, 281, 124724.	4.6	49
92	A Learning-Based Synthesis Approach to the Supremal Nonblocking Supervisor of Discrete-Event Systems. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 3345-3360.	3.6	48
93	Multistage Impact Energy Distribution for Whole Vehicles in High-Speed Train Collisions: Modeling and Solution Methodology. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 2486-2499.	7.2	48
94	Reconfiguration of Distributed Embedded-Control Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011, 16, 684-694.	3.7	47
95	A novel hybrid air quality early-warning system based on phase-space reconstruction and multi-objective optimization: A case study in China. <i>Journal of Cleaner Production</i> , 2020, 260, 121027.	4.6	47
96	A Design of Granular Takagi-Sugeno Fuzzy Model Through the Synergy of Fuzzy Subspace Clustering and Optimal Allocation of Information Granularity. <i>IEEE Transactions on Fuzzy Systems</i> , 2018, 26, 2499-2509.	6.5	46
97	An Optimization Approach to Improved Petri Net Controller Design for Automated Manufacturing Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , 2013, 10, 772-782.	3.4	45
98	A Novel Hybrid Fuzzy Grey TOPSIS Method: Supplier Evaluation of a Collaborative Manufacturing Enterprise. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3770.	1.3	45
99	An Approach to Improve Permissiveness of Supervisors for GMECs in Time Petri Net Systems. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 237-251.	3.6	45
100	Data-driven product design toward intelligent manufacturing: A review. <i>International Journal of Advanced Robotic Systems</i> , 2020, 17, 172988142091125.	1.3	45
101	Dual mode for vehicular platoon safety: Simulation and formal verification. <i>Information Sciences</i> , 2017, 402, 216-232.	4.0	44
102	Recycling of spent Lithium-ion Batteries: A comprehensive review for identification of main challenges and future research trends. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 53, 102447.	1.7	44
103	Hybrid Liveness-Enforcing Policy for Generalized Petri Net Models of Flexible Manufacturing Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2013, 43, 85-97.	5.9	43
104	Multiagent Framework for Smart Grids Recovery. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017, 47, 1284-1300.	5.9	43
105	Granular Models and Granular Outliers. <i>IEEE Transactions on Fuzzy Systems</i> , 2018, 26, 3835-3846.	6.5	43
106	An integrated decision-making method for product design scheme evaluation based on cloud model and EEG data. <i>Advanced Engineering Informatics</i> , 2020, 43, 101028.	4.0	43
107	Liveness and Ratio-Enforcing Supervision of Automated Manufacturing Systems Using Petri Nets. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2012, 42, 392-403.	3.4	42
108	A New Modified Reachability Tree Approach and Its Applications to Unbounded Petri Nets. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2013, 43, 932-940.	5.9	42

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109	Fuzzy clustering with nonlinearly transformed data. <i>Applied Soft Computing Journal</i> , 2017, 61, 364-376.	4.1	41
110	Granular Encoders and Decoders: A Study in Processing Information Granules. <i>IEEE Transactions on Fuzzy Systems</i> , 2017, 25, 1115-1126.	6.5	41
111	Improved Multi-Step Look-Ahead Control Policies for Automated Manufacturing Systems. <i>IEEE Access</i> , 2018, 6, 68824-68838.	2.6	41
112	Deadlock control of flexible manufacturing systems via invariant-controlled elementary siphons of petri nets. <i>International Journal of Advanced Manufacturing Technology</i> , 2007, 33, 24-35.	1.5	40
113	A Divide-and-Conquer Strategy to Deadlock Prevention in Flexible Manufacturing Systems. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2009, 39, 156-169.	3.3	40
114	Multiobjective Optimization Approach for a Portable Development of Reconfigurable Real-Time Systems: From Specification to Implementation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019, 49, 623-637.	5.9	40
115	Integrated intelligent green scheduling of sustainable flexible workshop with edge computing considering uncertain machine state. <i>Journal of Cleaner Production</i> , 2020, 246, 119070.	4.6	40
116	An XGBoost-based casualty prediction method for terrorist attacks. <i>Complex & Intelligent Systems</i> , 2020, 6, 721-740.	4.0	40
117	Modeling and scheduling for manufacturing grid workflows using timed Petri nets. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 42, 553-568.	1.5	39
118	Reconfigurable Multiagent Embedded Control Systems: From Modeling to Implementation. <i>IEEE Transactions on Computers</i> , 2011, 60, 538-551.	2.4	39
119	Local and global deadlock prevention policies for resource allocation systems using partially generated reachability graphs. <i>Computers and Industrial Engineering</i> , 2009, 57, 1168-1181.	3.4	38
120	Granular Data Aggregation: An Adaptive Principle of the Justifiable Granularity Approach. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 417-426.	6.2	38
121	An Edge-Based Distributed Decision-Making Method for Product Design Scheme Evaluation. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 1375-1385.	7.2	37
122	A deadlock prevention approach for flexible manufacturing systems without complete siphon enumeration of their Petri net models. <i>Engineering With Computers</i> , 2009, 25, 269-278.	3.5	36
123	Granular data imputation: A framework of Granular Computing. <i>Applied Soft Computing Journal</i> , 2016, 46, 307-316.	4.1	36
124	A correct minimal siphons extraction algorithm from a maximal unmarked siphon of a Petri net. <i>International Journal of Production Research</i> , 2007, 45, 2161-2165.	4.9	35
125	Optimal Priority-Free Conditionally-Preemptive Real-Time Scheduling of Periodic Tasks Based on DES Supervisory Control. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017, 47, 1082-1098.	5.9	35
126	New Power-Oriented Methodology for Dynamic Resizing and Mobility of Reconfigurable Wireless Sensor Networks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018, 48, 1120-1130.	5.9	35

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127	Maximally permissive liveness-enforcing supervisor with lowest implementation cost for flexible manufacturing systems. <i>Information Sciences</i> , 2014, 256, 74-90.	4.0	34
128	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.	3.1	34
129	On systematic methods to remove redundant monitors from liveness-enforcing net supervisors. <i>Computers and Industrial Engineering</i> , 2009, 56, 53-62.	3.4	32
130	R-Node: New Pipelined Approach for an Effective Reconfigurable Wireless Sensor Node. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018, 48, 892-905.	5.9	32
131	Granular Representation of Data: A Design of Families of μ -Information Granules. <i>IEEE Transactions on Fuzzy Systems</i> , 2018, 26, 2107-2119.	6.5	32
132	Synthesis of Structurally Simple Supervisors Enforcing Generalized Mutual Exclusion Constraints in Petri Nets. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2010, 40, 330-340.	3.3	30
133	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.	2.6	30
134	Design of Supervisors for Active Diagnosis in Discrete Event Systems. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 5159-5172.	3.6	30
135	Comments on "deadlock prevention policy based on petri nets and siphons". <i>International Journal of Production Research</i> , 2004, 42, 5253-5254.	4.9	29
136	A Piecewise Aggregate pattern representation approach for anomaly detection in time series. <i>Knowledge-Based Systems</i> , 2017, 135, 29-39.	4.0	29
137	An indicator system for evaluating the development of land-sea coordination systems: A case study of Lianyungang port. <i>Ecological Indicators</i> , 2019, 98, 112-120.	2.6	29
138	Optimal Petri-Net Controller for Avoiding Collisions in a Class of Automated Guided Vehicle Systems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020, 21, 4526-4537.	4.7	29
139	A New Integrated Approach for Risk Evaluation and Classification With Dynamic Expert Weights. <i>IEEE Transactions on Reliability</i> , 2021, 70, 163-174.	3.5	29
140	Extended elementary siphon-based deadlock prevention policy for a class of generalised Petri nets. <i>International Journal of Computer Integrated Manufacturing</i> , 2014, 27, 85-102.	2.9	28
141	An optimal-elementary-siphons-based iterative deadlock prevention policy for flexible manufacturing systems. <i>International Journal of Advanced Manufacturing Technology</i> , 2008, 38, 309-320.	1.5	27
142	Multiobjective Program and Hybrid Imperialist Competitive Algorithm for the Mixed-Model Two-Sided Assembly Lines Subject to Multiple Constraints. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018, 48, 119-129.	5.9	27
143	Single Controller-Based Colored Petri Nets for Deadlock Control in Automated Manufacturing Systems. <i>Processes</i> , 2020, 8, 21.	1.3	27
144	Modeling and Verification of Reconfigurable and Energy-Efficient Manufacturing Systems. <i>Discrete Dynamics in Nature and Society</i> , 2015, 2015, 1-14.	0.5	26

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145	Optimization of Deterministic Timed Weighted Marked Graphs. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1084-1095.	3.4	26
146	On scalable supervisory control of multi-agent discrete-event systems. Automatica, 2019, 108, 108460.	3.0	26
147	Diagnosability of Vector Discrete-Event Systems Using Predicates. IEEE Access, 2019, 7, 147143-147155.	2.6	26
148	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
149	Sparse Regularization-Based Fuzzy <i>c</i> -Means Clustering Incorporating Morphological Grayscale Reconstruction and Wavelet Frames. IEEE Transactions on Fuzzy Systems, 2021, 29, 1826-1840.	6.5	26
150	A Weighted Fidelity and Regularization-Based Method for Mixed or Unknown Noise Removal From Images on Graphs. IEEE Transactions on Image Processing, 2020, 29, 5229-5243.	6.0	26
151	Wind Power Curve Modeling With Hybrid Copula and Grey Wolf Optimization. IEEE Transactions on Sustainable Energy, 2022, 13, 265-276.	5.9	26
152	Suboptimal liveness-enforcing supervisor design for a class of generalised Petri nets using partial siphon enumeration and mathematical programming. International Journal of Systems Science, 2010, 41, 1013-1026.	3.7	25
153	High-Accuracy Signal Subspace Separation Algorithm Based on Gaussian Kernel Soft Partition. IEEE Transactions on Industrial Electronics, 2019, 66, 491-499.	5.2	25
154	Strict Minimal Siphon-Based Colored Petri Net Supervisor Synthesis for Automated Manufacturing Systems With Unreliable Resources. IEEE Access, 2020, 8, 22411-22424.	2.6	25
155	A Development of Granular Input Space in System Modeling. IEEE Transactions on Cybernetics, 2021, 51, 1639-1650.	6.2	25
156	Short-Term Traffic Flow Forecasting Using Ensemble Approach Based on Deep Belief Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 404-417.	4.7	25
157	Deadlock control of concurrent manufacturing processes sharing finite resources. International Journal of Advanced Manufacturing Technology, 2008, 38, 787-800.	1.5	24
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