

MengChu Zhou

List of Publications by Year in descending order

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1,065
papers

44,437
citations

1697

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7496

151
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1082
all docs

1082
docs citations

1082
times ranked

17457
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	Dendritic Neuron Model With Effective Learning Algorithms for Classification, Approximation, and Prediction. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 601-614.	7.2	524
3	Petri Net Synthesis for Discrete Event Control of Manufacturing Systems. , 1993, , .		520
4	Petri nets and industrial applications: A tutorial. IEEE Transactions on Industrial Electronics, 1994, 41, 567-583.	5.2	476
5	An Efficient Non-Negative Matrix-Factorization-Based Approach to Collaborative Filtering for Recommender Systems. IEEE Transactions on Industrial Informatics, 2014, 10, 1273-1284.	7.2	475
6	Routing in Internet of Vehicles: A Review. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2339-2352.	4.7	318
7	Deadlock Control Methods in Automated Manufacturing Systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2004, 34, 5-22.	3.4	310
8	Security and trust issues in Fog computing: A survey. Future Generation Computer Systems, 2018, 88, 16-27.	4.9	289
9	Comprehensive Learning Particle Swarm Optimization Algorithm With Local Search for Multimodal Functions. IEEE Transactions on Evolutionary Computation, 2019, 23, 718-731.	7.5	283
10	A Nonnegative Latent Factor Model for Large-Scale Sparse Matrices in Recommender Systems via Alternating Direction Method. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 579-592.	7.2	270
11	Modeling, analysis, simulation, scheduling, and control of semiconductor manufacturing systems: A Petri net approach. IEEE Transactions on Semiconductor Manufacturing, 1998, 11, 333-357.	1.4	257
12	Centralized Charging Strategy and Scheduling Algorithm for Electric Vehicles Under a Battery Swapping Scenario. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 659-669.	4.7	252
13	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
14	Role-based collaboration and its kernel mechanisms. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2006, 36, 578-589.	3.3	241
15	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
16	A Cooperative Quality-Aware Service Access System for Social Internet of Vehicles. IEEE Internet of Things Journal, 2018, 5, 2506-2517.	5.5	241
17	An embedded feature selection method for imbalanced data classification. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 703-715.	8.5	229
18	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

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19	Generating Highly Accurate Predictions for Missing QoS Data via Aggregating Nonnegative Latent Factor Models. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 524-537.	7.2	224
20	An Iterative Synthesis Approach to Petri Net-Based Deadlock Prevention Policy for Flexible Manufacturing Systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2007, 37, 362-371.	3.4	223
21	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
22	Group Role Assignment via a Kuhnâ€Munkres Algorithm-Based Solution. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 739-750.	3.4	222
23	Likelihood-Ratio Approaches to Automatic Modulation Classification. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2011, 41, 455-469.	3.3	219
24	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
25	A Survey on Acquisition, Tracking, and Pointing Mechanisms for Mobile Free-Space Optical Communications. IEEE Communications Surveys and Tutorials, 2018, 20, 1104-1123.	24.8	209
26	Dynamic Cloud Task Scheduling Based on a Two-Stage Strategy. IEEE Transactions on Automation Science and Engineering, 2018, 15, 772-783.	3.4	209
27	Incorporation of Efficient Second-Order Solvers Into Latent Factor Models for Accurate Prediction of Missing QoS Data. IEEE Transactions on Cybernetics, 2018, 48, 1216-1228.	6.2	207
28	Temporal Pattern-Aware QoS Prediction via Biased Non-Negative Latent Factorization of Tensors. IEEE Transactions on Cybernetics, 2020, 50, 1798-1809.	6.2	202
29	Chaotic Local Search-Based Differential Evolution Algorithms for Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 3954-3967.	5.9	202
30	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
31	Modeling, Analysis and Control of Dual-Arm Cluster Tools With Residency Time Constraint and Activity Time Variation Based on Petri Nets. IEEE Transactions on Automation Science and Engineering, 2012, 9, 446-454.	3.4	199
32	Disassembly Sequence Planning Considering Fuzzy Component Quality and Varying Operational Cost. IEEE Transactions on Automation Science and Engineering, 2018, 15, 748-760.	3.4	197
33	Modeling and Planning for Dual-Objective Selective Disassembly Using and/or Graph and Discrete Artificial Bee Colony. IEEE Transactions on Industrial Informatics, 2019, 15, 2456-2468.	7.2	197
34	A Petri Net Method for Schedulability and Scheduling Problems in Single-Arm Cluster Tools With Wafer Residency Time Constraints. IEEE Transactions on Semiconductor Manufacturing, 2008, 21, 224-237.	1.4	194
35	Avoiding deadlock and reducing starvation and blocking in automated manufacturing systems. IEEE Transactions on Automation Science and Engineering, 2001, 17, 658-669.	2.4	192
36	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

#	ARTICLE	IF	CITATIONS
37	Schedulability Analysis and Optimal Scheduling of Dual-Arm Cluster Tools With Residency Time Constraint and Activity Time Variation. IEEE Transactions on Automation Science and Engineering, 2012, 9, 203-209.	3.4	186
38	Toward cloud computing QoS architecture: analysis of cloud systems and cloud services. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 6-18.	8.5	185
39	Flexible Job-Shop Rescheduling for New Job Insertion by Using Discrete Jaya Algorithm. IEEE Transactions on Cybernetics, 2019, 49, 1944-1955.	6.2	184
40	A Petri Net-Based Method for Compatibility Analysis and Composition of Web Services in Business Process Execution Language. IEEE Transactions on Automation Science and Engineering, 2009, 6, 94-106.	3.4	183
41	Agent-Oriented Cooperative Smart Objects: From IoT System Design to Implementation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1939-1956.	5.9	179
42	Disassembly Sequence Optimization for Large-Scale Products With Multiresource Constraints Using Scatter Search and Petri Nets. IEEE Transactions on Cybernetics, 2016, 46, 2435-2446.	6.2	176
43	T TSA: An Effective Scheduling Approach for Delay Bounded Tasks in Hybrid Clouds. IEEE Transactions on Cybernetics, 2017, 47, 3658-3668.	6.2	176
44	A Noise-Filtered Under-Sampling Scheme for Imbalanced Classification. IEEE Transactions on Cybernetics, 2017, 47, 4263-4274.	6.2	173
45	Predicting Quality of Service for Selection by Neighborhood-Based Collaborative Filtering. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 428-439.	5.9	172
46	Petri Net Modeling and Cycle-Time Analysis of Dual-Arm Cluster Tools With Wafer Revisiting. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 196-207.	5.9	171
47	AI-based modeling and data-driven evaluation for smart manufacturing processes. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 1026-1037.	8.5	171
48	An Inherently Nonnegative Latent Factor Model for High-Dimensional and Sparse Matrices from Industrial Applications. IEEE Transactions on Industrial Informatics, 2018, 14, 2011-2022.	7.2	170
49	Optimal Petri-Net-Based Polynomial-Complexity Deadlock-Avoidance Policies for Automated Manufacturing Systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2009, 39, 188-199.	3.4	169
50	An online fault detection model and strategies based on SVM-grid in clouds. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 445-456.	8.5	169
51	Energy-Optimized Partial Computation Offloading in Mobile-Edge Computing With Genetic Simulated-Annealing-Based Particle Swarm Optimization. IEEE Internet of Things Journal, 2021, 8, 3774-3785.	5.5	168
52	Disassembly modeling, planning, and application. Journal of Manufacturing Systems, 2002, 21, 200-217.	7.6	166
53	Modified cuckoo search algorithm to solve economic power dispatch optimization problems. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 794-806.	8.5	164
54	Modeling and Deadlock Avoidance of Automated Manufacturing Systems With Multiple Automated Guided Vehicles. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 1193-1202.	5.5	158

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55	Lexicographic Multiobjective Scatter Search for the Optimization of Sequence-Dependent Selective Disassembly Subject to Multiresource Constraints. IEEE Transactions on Cybernetics, 2020, 50, 3307-3317.	6.2	157
56	Fuzzy reasoning petri nets. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2003, 33, 314-324.	3.4	155
57	A Closed-Form Solution for Schedulability and Optimal Scheduling of Dual-Arm Cluster Tools With Wafer Residency Time Constraint Based on Steady Schedule Analysis. IEEE Transactions on Automation Science and Engineering, 2010, 7, 303-315.	3.4	155
58	A Position-Based Clustering Technique for Ad Hoc Intervehicle Communication. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2008, 38, 201-208.	3.3	154
59	Optimal Load Scheduling of Plug-In Hybrid Electric Vehicles via Weight-Aggregation Multi-Objective Evolutionary Algorithms. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2557-2568.	4.7	150
60	Composite Particle Swarm Optimizer With Historical Memory for Function Optimization. IEEE Transactions on Cybernetics, 2015, 45, 2350-2363.	6.2	149
61	Internet of Things as System of Systems: A Review of Methodologies, Frameworks, Platforms, and Tools. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 223-236.	5.9	148
62	Design and implementation of a petri net based supervisor for a flexible manufacturing system. Automatica, 1992, 28, 1199-1208.	3.0	144
63	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
64	Recent Advances in Energy-Efficient Routing Protocols for Wireless Sensor Networks: A Review. IEEE Access, 2016, 4, 5673-5686.	2.6	144
65	A Supervised Learning and Control Method to Improve Particle Swarm Optimization Algorithms. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1135-1148.	5.9	144
66	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
67	Dual-Objective Scheduling of Rescue Vehicles to Distinguish Forest Fires via Differential Evolution and Particle Swarm Optimization Combined Algorithm. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 3009-3021.	4.7	141
68	Scheduling of semiconductor test facility via Petri nets and hybrid heuristic search. IEEE Transactions on Semiconductor Manufacturing, 1998, 11, 384-393.	1.4	139
69	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
70	Performance Modeling and Analysis of Workflow. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2004, 34, 229-242.	3.4	135
71	Nonlinear Bayesian estimation: from Kalman filtering to a broader horizon. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 401-417.	8.5	135
72	Dual-Objective Program and Scatter Search for the Optimization of Disassembly Sequences Subject to Multiresource Constraints. IEEE Transactions on Automation Science and Engineering, 2018, 15, 1091-1103.	3.4	132

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73	A multi-layered gravitational search algorithm for function optimization and real-world problems. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 94-109.	8.5	132
74	Analysis of Wafer Sojourn Time in Dual-Arm Cluster Tools With Residency Time Constraint and Activity Time Variation. IEEE Transactions on Semiconductor Manufacturing, 2010, 23, 53-64.	1.4	131
75	Petri Net-Based Scheduling of Single-Arm Cluster Tools With Reentrant Atomic Layer Deposition Processes. IEEE Transactions on Automation Science and Engineering, 2011, 8, 42-55.	3.4	130
76	A Novel Approach to Extracting Non-Negative Latent Factors From Non-Negative Big Sparse Matrices. IEEE Access, 2016, 4, 2649-2655.	2.6	130
77	Petri Net Modeling and Wafer Sojourn Time Analysis of Single-Arm Cluster Tools With Residency Time Constraints and Activity Time Variation. IEEE Transactions on Semiconductor Manufacturing, 2012, 25, 432-446.	1.4	129
78	A Deep Latent Factor Model for High-Dimensional and Sparse Matrices in Recommender Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4285-4296.	5.9	127
79	An Efficient Group Recommendation Model With Multiattention-Based Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4461-4474.	7.2	126
80	A Petri Net Approach to Analysis and Composition of Web Services. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 376-387.	3.4	125
81	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
82	Algorithms of Unconstrained Non-Negative Latent Factor Analysis for Recommender Systems. IEEE Transactions on Big Data, 2021, 7, 227-240.	4.4	125
83	A Petri Net-Based Novel Scheduling Approach and Its Cycle Time Analysis for Dual-Arm Cluster Tools With Wafer Revisiting. IEEE Transactions on Semiconductor Manufacturing, 2013, 26, 100-110.	1.4	124
84	Common Bayesian Network for Classification of EEG-Based Multiclass Motor Imagery BCI. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 843-854.	5.9	122
85	Dual-Objective Mixed Integer Linear Program and Memetic Algorithm for an Industrial Group Scheduling Problem. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 1199-1209.	8.5	122
86	Resource-Transition Circuits and Siphons for Deadlock Control of Automated Manufacturing Systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2011, 41, 74-84.	3.4	121
87	Petri Net-Based Optimal One-Wafer Scheduling of Single-Arm Multi-Cluster Tools in Semiconductor Manufacturing. IEEE Transactions on Semiconductor Manufacturing, 2013, 26, 578-591.	1.4	121
88	Automated Modeling of Dynamic Reliability Block Diagrams Using Colored Petri Nets. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 337-351.	3.4	118
89	Deadlock-Free Genetic Scheduling Algorithm for Automated Manufacturing Systems Based on Deadlock Control Policy. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 603-615.	5.5	118
90	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

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91	A Survey of Cyber Attacks on Cyber Physical Systems: Recent Advances and Challenges. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 784-800.	8.5	116
92	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
93	Modified Primal-Dual Neural Networks for Motion Control of Redundant Manipulators With Dynamic Rejection of Harmonic Noises. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4791-4801.	7.2	115
94	Privacy-Preserving Content Dissemination for Vehicular Social Networks: Challenges and Solutions. IEEE Communications Surveys and Tutorials, 2019, 21, 1314-1345.	24.8	114
95	Scheduling Dual-Objective Stochastic Hybrid Flow Shop With Deteriorating Jobs via Bi-Population Evolutionary Algorithm. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 5037-5048.	5.9	114
96	Disassembly Sequence Planning: A Survey. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 1308-1324.	8.5	114
97	Modeling and Deadlock Control of Automated Guided Vehicle Systems. IEEE/ASME Transactions on Mechatronics, 2004, 9, 50-57.	3.7	113
98	Swarm Intelligence Approaches to Optimal Power Flow Problem With Distributed Generator Failures in Power Networks. IEEE Transactions on Automation Science and Engineering, 2013, 10, 343-353.	3.4	113
99	Application-Aware Dynamic Fine-Grained Resource Provisioning in a Virtualized Cloud Data Center. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1172-1184.	3.4	113
100	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
101	A Distance-Based Weighted Undersampling Scheme for Support Vector Machines and its Application to Imbalanced Classification. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4152-4165.	7.2	111
102	Scheduling Semiconductor Testing Facility by Using Cuckoo Search Algorithm With Reinforcement Learning and Surrogate Modeling. IEEE Transactions on Automation Science and Engineering, 2019, 16, 825-837.	3.4	110
103	Latent Factor-Based Recommenders Relying on Extended Stochastic Gradient Descent Algorithms. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 916-926.	5.9	110
104	Distributed Winner-Take-All in Dynamic Networks. IEEE Transactions on Automatic Control, 2017, 62, 577-589.	3.6	109
105	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
106	An Incremental-and-Static-Combined Scheme for Matrix-Factorization-Based Collaborative Filtering. IEEE Transactions on Automation Science and Engineering, 2016, 13, 333-343.	3.4	107
107	Mobility-Aware Service Composition in Mobile Communities. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 555-568.	5.9	107
108	Highly Efficient Framework for Predicting Interactions Between Proteins. IEEE Transactions on Cybernetics, 2017, 47, 731-743.	6.2	107

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109	Profit-Maximized Collaborative Computation Offloading and Resource Allocation in Distributed Cloud and Edge Computing Systems. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1277-1287.	3.4	107
110	A Collaborative Resource Allocation Strategy for Decomposition-Based Multiobjective Evolutionary Algorithms. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2416-2423.	5.9	106
111	Stochastic Modeling and Quality Evaluation of Infrastructure-as-a-Service Clouds. IEEE Transactions on Automation Science and Engineering, 2015, 12, 162-170.	3.4	105
112	An adaptive particle swarm optimization method based on clustering. Soft Computing, 2015, 19, 431-448.	2.1	105
113	Colored Traveling Salesman Problem. IEEE Transactions on Cybernetics, 2015, 45, 2390-2401.	6.2	104
114	Efficient and High-quality Recommendations via Momentum-incorporated Parallel Stochastic Gradient Descent-Based Learning. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 402-411.	8.5	104
115	Shortest Routing of Bidirectional Automated Guided Vehicles Avoiding Deadlock and Blocking. IEEE/ASME Transactions on Mechatronics, 2007, 12, 63-72.	3.7	103
116	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
117	Emotion-Aware Cognitive System in Multi-Channel Cognitive Radio Ad Hoc Networks. IEEE Communications Magazine, 2018, 56, 180-187.	4.9	103
118	Randomized latent factor model for high-dimensional and sparse matrices from industrial applications. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 131-141.	8.5	103
119	A Chance Constrained Programming Approach to Determine the Optimal Disassembly Sequence. IEEE Transactions on Automation Science and Engineering, 2013, 10, 1004-1013.	3.4	102
120	Scheduling of Single-Arm Multi-cluster Tools With Wafer Residency Time Constraints in Semiconductor Manufacturing. IEEE Transactions on Semiconductor Manufacturing, 2015, 28, 117-125.	1.4	102
121	Bilevel Feature Extraction-Based Text Mining for Fault Diagnosis of Railway Systems. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 49-58.	4.7	102
122	Design and optimization of integrated E-supply chain for agile and environmentally conscious manufacturing. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2006, 36, 62-75.	3.4	101
123	An Efficient Second-Order Approach to Factorize Sparse Matrices in Recommender Systems. IEEE Transactions on Industrial Informatics, 2015, 11, 946-956.	7.2	100
124	A Petri Net-Based Discrete-Event Control of Automated Manufacturing Systems With Assembly Operations. IEEE Transactions on Control Systems Technology, 2015, 23, 513-524.	3.2	100
125	An Integrated Multi-Criteria Decision Making Approach to Location Planning of Electric Vehicle Charging Stations. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 362-373.	4.7	100
126	TL-GDBN: Growing Deep Belief Network With Transfer Learning. IEEE Transactions on Automation Science and Engineering, 2019, 16, 874-885.	3.4	100

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127	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
128	Deadlock Resolution in Automated Manufacturing Systems With Robots. IEEE Transactions on Automation Science and Engineering, 2007, 4, 474-480.	3.4	98
129	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
130	Timing constraint workflow nets for workflow analysis. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2003, 33, 179-193.	3.4	97
131	Intelligent Decision Making in Disassembly Process Based on Fuzzy Reasoning Petri Nets. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 2029-2034.	5.5	97
132	Software-Defined Radio Equipped With Rapid Modulation Recognition. IEEE Transactions on Vehicular Technology, 2010, 59, 1659-1667.	3.9	96
133	A Branching-Process-Based Method to Check Soundness of Workflow Systems. IEEE Access, 2016, 4, 4104-4118.	2.6	96
134	MOELS: Multiobjective Evolutionary List Scheduling for Cloud Workflows. IEEE Transactions on Automation Science and Engineering, 2020, 17, 166-176.	3.4	95
135	Mobile Cyber Physical Systems: Current Challenges and Future Networking Applications. IEEE Access, 2018, 6, 12360-12368.	2.6	94
136	A Necessary and Sufficient Condition for a Resource Subset to Generate a Strict Minimal Siphon in S 4PR. IEEE Transactions on Automatic Control, 2017, 62, 4173-4179.	3.6	92
137	A Secure Routing Protocol Against Byzantine Attacks for MANETs in Adversarial Environments. IEEE Transactions on Vehicular Technology, 2009, 58, 449-460.	3.9	91
138	A Two-level Traffic Light Control Strategy for Preventing Incident-Based Urban Traffic Congestion. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 13-24.	4.7	91
139	Comparing ladder logic diagrams and Petri nets for sequence controller design through a discrete manufacturing system. IEEE Transactions on Industrial Electronics, 1994, 41, 611-619.	5.2	90
140	Gaussian Classifier-Based Evolutionary Strategy for Multimodal Optimization. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1200-1216.	7.2	90
141	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
142	Non-Negativity Constrained Missing Data Estimation for High-Dimensional and Sparse Matrices from Industrial Applications. IEEE Transactions on Cybernetics, 2020, 50, 1844-1855.	6.2	90
143	Multiresource-Constrained Selective Disassembly With Maximal Profit and Minimal Energy Consumption. IEEE Transactions on Automation Science and Engineering, 2021, 18, 804-816.	3.4	90
144	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

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145	Timed Compatibility Analysis of Web Service Composition: A Modular Approach Based on Petri Nets. IEEE Transactions on Automation Science and Engineering, 2014, 11, 594-606.	3.4	89
146	Petri Net Modeling and Scheduling of a Close-Down Process for Time-Constrained Single-Arm Cluster Tools. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 389-400.	5.9	89
147	An Effective Scheme for QoS Estimation via Alternating Direction Method-Based Matrix Factorization. IEEE Transactions on Services Computing, 2019, 12, 503-518.	3.2	89
148	Optimal Sizing of PEV Fast Charging Stations With Markovian Demand Characterization. IEEE Transactions on Smart Grid, 2019, 10, 4457-4466.	6.2	88
149	Fuzzy-Petri-net-based disassembly planning considering human factors. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2006, 36, 718-726.	3.4	87
150	Data-Driven Service Composition in Enterprise SOA Solutions: A Petri Net Approach. IEEE Transactions on Automation Science and Engineering, 2010, 7, 686-694.	3.4	87
151	Bi-objective Elite Differential Evolution Algorithm for Multivalued Logic Networks. IEEE Transactions on Cybernetics, 2020, 50, 233-246.	6.2	87
152	Timetable Optimization for Regenerative Energy Utilization in Subway Systems. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3247-3257.	4.7	86
153	Optimizing Weighted Extreme Learning Machines for imbalanced classification and application to credit card fraud detection. Neurocomputing, 2020, 407, 50-62.	3.5	86
154	An integrated approach to disassembly planning and demanufacturing operation. IEEE Transactions on Automation Science and Engineering, 2001, 17, 773-784.	2.4	85
155	Liveness of an extended S3PR. Automatica, 2010, 46, 1008-1018.	3.0	85
156	Real-Time Scheduling of Single-Arm Cluster Tools Subject to Residency Time Constraints and Bounded Activity Time Variation. IEEE Transactions on Automation Science and Engineering, 2012, 9, 564-577.	3.4	85
157	Fluctuation-Aware and Predictive Workflow Scheduling in Cost-Effective Infrastructure-as-a-Service Clouds. IEEE Access, 2018, 6, 61488-61502.	2.6	85
158	Accessibility Analysis and Modeling for IoV in an Urban Scene. IEEE Transactions on Vehicular Technology, 2020, 69, 4246-4256.	3.9	85
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