

Naiqi Wu

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.

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 | 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 |
| 106 | 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 |
| 105 | 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 | |
| 104 | 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 |
| 103 | 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 |
| 102 | . <i>IEEE Access</i> , 2021 , 9, 163504-163515 | 3.5 | 1 |
| 101 | . <i>IEEE Access</i> , 2021 , 9, 142664-142680 | 3.5 | |
| 100 | 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 |
| 99 | 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 |
| 98 | A scientometric review of research on traffic forecasting in transportation. <i>IET Intelligent Transport Systems</i> , 2021 , 15, 1-16 | 2.4 | 9 |
| 97 | 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 |
| 96 | 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 |
| 95 | 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 |
| 94 | 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 |
| 93 | 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 |
| 92 | . <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 4347-4358 | 7.3 | |
| 91 | . <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 1612-1629 | 7.3 | 6 |

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| 90 | 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 |
| 89 | . <i>IEEE Access</i> , 2021 , 9, 70868-70883 | 3.5 | 1 |
| 88 | Anomaly detection via a combination model in time series data. <i>Applied Intelligence</i> , 2021 , 51, 4874-4887 | 4.9 | 5 |
| 87 | 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 |
| 86 | 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 |
| 85 | 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 |
| 84 | 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 |
| 83 | On Multiplexity-Aware Influence Spread in Social Networks. <i>IEEE Access</i> , 2020 , 8, 106705-106713 | 3.5 | 34 |
| 82 | 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 |
| 81 | A Comparative Study on Contract Recommendation Model: Using Macao Mobile Phone Datasets. <i>IEEE Access</i> , 2020 , 8, 39747-39757 | 3.5 | 3 |
| 80 | . <i>IEEE Transactions on Network Science and Engineering</i> , 2020 , 7, 1545-1556 | 4.9 | 3 |
| 79 | . <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 5015-5023 | 7.3 | 6 |
| 78 | Robust deadlock control for automated manufacturing systems based on elementary siphon theory. <i>Information Sciences</i> , 2020 , 510, 165-182 | 7.7 | 10 |
| 77 | 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 |
| 76 | . <i>IEEE Access</i> , 2020 , 8, 133605-133621 | 3.5 | 2 |
| 75 | Fault Diagnosis of Backward Conflict-Free Petri Nets by Generalized Markings. <i>IEEE Access</i> , 2020 , 8, 154874-154880 | 3.5 | 1 |
| 74 | Fault-Recovery and Repair Modeling of Discrete Event Systems Using Petri Nets. <i>IEEE Access</i> , 2020 , 8, 170237-170247 | 3.5 | 5 |
| 73 | Exploration of Nanoporous CuBi Binary Alloy for Potassium Storage. <i>Advanced Functional Materials</i> , 2020 , 30, 2003838 | 15.6 | 17 |

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| 72 | Homomorphic Encryption of Supervisory Control Systems Using Automata. <i>IEEE Access</i> , 2020 , 8, 147185-147198 | 3.4 | 19 |
| 71 | 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 |
| 70 | 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 |
| 69 | 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 |
| 68 | 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 |
| 67 | . <i>IEEE Access</i> , 2019 , 7, 17760-17771 | 3.5 | 6 |
| 66 | 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 |
| 65 | . <i>IEEE Access</i> , 2019 , 7, 21006-21019 | 3.5 | 19 |
| 64 | 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 |
| 63 | 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 |
| 62 | Optimal Petri net supervisor synthesis for forbidden state problems using marking mask. <i>Information Sciences</i> , 2019 , 505, 183-197 | 7.7 | 5 |
| 61 | . <i>IEEE Access</i> , 2019 , 7, 88579-88591 | 3.5 | 3 |
| 60 | 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 |
| 59 | Diagnosability of Vector Discrete-Event Systems Using Predicates. <i>IEEE Access</i> , 2019 , 7, 147143-147155 | 3.5 | 23 |
| 58 | 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 |
| 57 | . <i>IEEE Access</i> , 2019 , 7, 186378-186392 | 3.5 | 6 |
| 56 | . <i>IEEE Internet of Things Journal</i> , 2019 , 6, 2518-2531 | 10.7 | 46 |
| 55 | 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 |

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| 54 | Deadlock analysis and control using Petri net decomposition techniques. <i>Information Sciences</i> , 2019 , 482, 440-456 | 7.7 | 8 |
| 53 | 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 |
| 52 | 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 |
| 51 | . <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 49, 1371-1385 | 7.3 | 57 |
| 50 | 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 |
| 49 | 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 |
| 48 | IoT-based smart and complex systems: a guest editorial report. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2018 , 5, 69-73 | 7 | 9 |
| 47 | 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 |
| 46 | 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 |
| 45 | 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 |
| 44 | . <i>IEEE Access</i> , 2018 , 6, 28028-28040 | 3.5 | 16 |
| 43 | Fault Diagnosis in Partially Observed Petri Nets Using Redundancies. <i>IEEE Access</i> , 2018 , 6, 7541-7556 | 3.5 | 12 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |
| 38 | 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 |
| 37 | 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 |

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| 36 | Assessment of Energy-Saving Practices of the Hospitality Industry in Macau. <i>Sustainability</i> , 2018 , 10, 2553-6 | 3.6 | 3 |
| 35 | 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 |
| 34 | Supervisory control of state-tree structures with partial observation. <i>Information Sciences</i> , 2018 , 465, 523-544 | 7.7 | 14 |
| 33 | State Space Characterization of Disjunctive Single-Unit Resource Allocation Systems. <i>IEEE Access</i> , 2018 , 6, 51515-51527 | 3.5 | 1 |
| 32 | 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 | 14.1 | 4 |
| 31 | Short-Term Scheduling of Vehicle Testing System Using Object Petri Net. <i>IEEE Access</i> , 2018 , 6, 61317-61330 | 13.3 | 5 |
| 30 | 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 |
| 29 | Improved Multi-Step Look-Ahead Control Policies for Automated Manufacturing Systems. <i>IEEE Access</i> , 2018 , 6, 68824-68838 | 3.5 | 37 |
| 28 | Two-step approach to robust deadlock control in automated manufacturing systems with multiple resource failures 2018 , 41, 452-462 | | 7 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | 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 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |

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|----|---|-----|-----|
| 18 | Performance evaluation of vehicular platoons using Webots. <i>IET Intelligent Transport Systems</i> , 2017 , 11, 441-449 | 2.4 | 18 |
| 17 | . <i>IEEE Access</i> , 2017 , 5, 15731-15749 | 3.5 | 11 |
| 16 | Fault diagnosis in DESs modeled by partially observed Petri nets 2016 , | | 1 |
| 15 | 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 |
| 14 | 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 |
| 13 | 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 |
| 12 | 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 |
| 11 | 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 |
| 10 | 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 |
| 9 | Confusion diagnosis and avoidance of discrete event systems using supervisory control. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2016 , 11, 49-62 | 1 | 2 |
| 8 | 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 |
| 7 | Confusion Control in Generalized Petri Nets Using Synchronized Events. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-23 | 1.1 | |
| 6 | Equivalent Transformation of Nonlinear Constraints to Linear Constraints in Petri Nets. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-11 | 1.1 | 1 |
| 5 | 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 |
| 4 | 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 |
| 3 | 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 |
| 2 | An approximate algorithm for the Lane Reservation Problem in Time Constrained Transportation 2010 , | | 1 |
| 1 | SLNL: A novel method for gene selection and phenotype classification. <i>International Journal of Intelligent Systems</i> , | 8.4 | 2 |

