

Zhou He

List of Publications by Year in descending order

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papers

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times ranked

523
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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. | 2.9 | 249 |
| 2 | Verification of State-Based Opacity Using Petri Nets. IEEE Transactions on Automatic Control, 2017, 62, 2823-2837. | 5.7 | 199 |
| 3 | Design of Optimal Petri Net Controllers for Disjunctive Generalized Mutual Exclusion Constraints. IEEE Transactions on Automatic Control, 2015, 60, 1774-1785. | 5.7 | 107 |
| 4 | Dynamic Low-Power Reconfiguration of Real-Time Systems With Periodic and Probabilistic Tasks. IEEE Transactions on Automation Science and Engineering, 2015, 12, 258-271. | 5.2 | 107 |
| 5 | 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. | 9.3 | 83 |
| 6 | Model-based fault identification of discrete event systems using partially observed Petri nets. Automatica, 2018, 96, 201-212. | 5.0 | 74 |
| 7 | Characterization of Admissible Marking Sets in Petri Nets With Conflicts and Synchronizations. IEEE Transactions on Automatic Control, 2017, 62, 1329-1341. | 5.7 | 68 |
| 8 | On the Equivalence of Observation Structures for Petri Net Generators. IEEE Transactions on Automatic Control, 2016, 61, 2448-2462. | 5.7 | 66 |
| 9 | Current-state opacity enforcement in discrete event systems under incomparable observations. Discrete Event Dynamic Systems: Theory and Applications, 2018, 28, 161-182. | 1.5 | 64 |
| 10 | 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. | 9.3 | 56 |
| 11 | Decidability of opacity verification problems in labeled Petri net systems. Automatica, 2017, 80, 48-53. | 5.0 | 54 |
| 12 | Optimal Priority-Free Conditionally-Preemptive Real-Time Scheduling of Periodic Tasks Based on DES Supervisory Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1082-1098. | 9.3 | 35 |
| 13 | On Algebraic Identification of Critical States for Deadlock Control in Automated Manufacturing Systems Modeled With Petri Nets. IEEE Access, 2019, 7, 121332-121349. | 4.2 | 30 |
| 14 | Optimal Petri-Net Controller for Avoiding Collisions in a Class of Automated Guided Vehicle Systems. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4526-4537. | 8.0 | 29 |
| 15 | Optimization of Deterministic Timed Weighted Marked Graphs. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1084-1095. | 5.2 | 26 |
| 16 | Synthesis of Supervisory Control With Partial Observation on Normal State-Tree Structures. IEEE Transactions on Automation Science and Engineering, 2019, 16, 984-997. | 5.2 | 26 |
| 17 | Stealthy Attacks for Partially-Observed Discrete Event Systems. , 2018, , . | | 23 |
| 18 | Performance Optimization for Timed Weighted Marked Graphs Under Infinite Server Semantics. IEEE Transactions on Automatic Control, 2018, 63, 2573-2580. | 5.7 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Cycle Time Optimization of Deterministic Timed Weighted Marked Graphs by Transformation. IEEE Transactions on Control Systems Technology, 2017, 25, 1318-1330. | 5.2 | 18 |
| 20 | Supervisory control of state-tree structures with partial observation. Information Sciences, 2018, 465, 523-544. | 6.9 | 17 |
| 21 | State-based fault diagnosis of discrete-event systems with partially observable outputs. Information Sciences, 2020, 529, 87-100. | 6.9 | 16 |
| 22 | Marking Estimation in a Class of Time Labeled Petri Nets. IEEE Transactions on Automatic Control, 2020, 65, 493-506. | 5.7 | 15 |
| 23 | Path Planning of Multi-Robot Systems With Boolean Specifications Based on Simulated Annealing. IEEE Robotics and Automation Letters, 2022, 7, 6091-6098. | 5.1 | 15 |
| 24 | Priority-free conditionally-preemptive scheduling of modular sporadic real-time systems. Automatica, 2018, 89, 392-397. | 5.0 | 13 |
| 25 | Some Remarks on "State Estimation and Fault Diagnosis of Labeled Time Petri Net Systems With Unobservable Transitions". IEEE Transactions on Automatic Control, 2019, 64, 5253-5259. | 5.7 | 13 |
| 26 | K-Codiagnosability Verification of Labeled Petri Nets. IEEE Access, 2019, 7, 185055-185062. | 4.2 | 13 |
| 27 | Closed-Loop Deadlock-Free Supervision for GMECs in Time Petri Net Systems. IEEE Transactions on Automatic Control, 2021, 66, 5326-5341. | 5.7 | 13 |
| 28 | Real-Time Scheduling Based on Nonblocking Supervisory Control of State-Tree Structures. IEEE Transactions on Automatic Control, 2021, 66, 4230-4237. | 5.7 | 11 |
| 29 | Deadlock and liveness characterization for a class of generalized Petri nets. Information Sciences, 2017, 420, 403-416. | 6.9 | 10 |
| 30 | Deadlock Control and Fault Detection and Treatment in Reconfigurable Manufacturing Systems Using Colored Resource-Oriented Petri Nets Based on Neural Network. IEEE Access, 2021, 9, 84932-84947. | 4.2 | 9 |
| 31 | Resource Configuration Analysis for a Class of Petri Nets Based on Strongly Connected Characteristic Resource Subnets. IEEE Access, 2017, 5, 26376-26386. | 4.2 | 8 |
| 32 | Performance safety enforcement in stochastic event graphs against boost and slow attacks. Nonlinear Analysis: Hybrid Systems, 2021, 41, 101057. | 3.5 | 8 |
| 33 | Path Planning of Multi-Type Robot Systems with Time Windows Based on Timed Colored Petri Nets. Applied Sciences (Switzerland), 2022, 12, 6878. | 2.5 | 8 |
| 34 | Marking optimization of deterministic timed weighted marked graphs. , 2014, , . | | 7 |
| 35 | Path planning for automated guided vehicle systems with time constraints using timed Petri nets. Measurement and Control, 2020, 53, 2030-2040. | 1.8 | 7 |
| 36 | Most permissive liveness-enforcing Petri net supervisors for discrete event systems via linear monitors. ISA Transactions, 2019, 92, 145-154. | 5.7 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | An approach for enforcing a class of GMECs on time Petri nets with uncontrollable transitions. Information Sciences, 2021, 580, 897-916. | 6.9 | 6 |
| 38 | SCT-based priority-free conditionally-preemptive scheduling of modular real-time systems with exact task execution time. Discrete Event Dynamic Systems: Theory and Applications, 2019, 29, 501-520. | 1.5 | 4 |
| 39 | Surface Slip Deformation Characteristics of Nickel-Base Single Crystal Thin Plates With Film Cooling Holes. IEEE Access, 2020, 8, 75145-75153. | 4.2 | 4 |
| 40 | Cycle time optimization of deterministic timed weighted marked graphs. , 2015, , . | | 3 |
| 41 | Firing Rate Optimization of Deterministic Timed Event Graphs by Server Performance Improvement. IEEE Access, 2018, 6, 70866-70873. | 4.2 | 3 |
| 42 | An improved approach for marking optimization of timed weighted marked graphs. Discrete Event Dynamic Systems: Theory and Applications, 2019, 29, 127-143. | 1.5 | 3 |
| 43 | Codiagnosability Enforcement in Labeled Petri Nets. IEEE Transactions on Automatic Control, 2023, 68, 2436-2443. | 5.7 | 3 |
| 44 | Supervisory Control in Partially Observable Petri Nets with Sensor Reduction. , 2019, , . | | 2 |
| 45 | Marking optimization of deterministic timed weighted marked graphs under infinite server semantics. , 2016, , . | | 1 |
| 46 | Optimization of deterministic timed weighted marked graphs. , 2017, , . | | 0 |
| 47 | Liveness characteristic analysis of a class of Petri nets. Advances in Mechanical Engineering, 2018, 10, 168781401878148. | 1.6 | 0 |
| 48 | Optimistic Fault Diagnosis in Discrete Event Systems by Labeled Petri Nets and Basis Markings. International Journal of Control, Automation and Systems, 0, , . | 2.7 | 0 |
| 49 | Supervisory Control of Automated Manufacturing Systems Based on State-Tree Structures. Symmetry, 2022, 14, 1470. | 2.2 | 0 |