

Alessandro Giua

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4243887/publications.pdf>

Version: 2024-02-01

250
papers

6,391
citations

66234

42
h-index

95083

68
g-index

264
all docs

264
docs citations

264
times ranked

2237
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Min and Max Consensus and Size Estimation of Anonymous Multiagent Networks. IEEE Transactions on Automatic Control, 2023, 68, 202-213.	3.6	13
2	Probabilistic state estimation for labeled continuous time Markov models with applications to attack detection. Discrete Event Dynamic Systems: Theory and Applications, 2022, 32, 65-88.	0.6	6
3	Non-Blockingness Verification of Bounded Petri Nets Using Basis Reachability Graphs. , 2022, 6, 1220-1225.		0
4	A Sliding Mode Observer Design for the Average State Estimation in Large-Scale Systems. , 2022, 6, 632-637.		1
5	Design of supervisors for linear marking specifications in labeled Petri nets. Automatica, 2022, 136, 110031.	3.0	8
6	Verification of Nonblockingness in Bounded Petri Nets With Min-Max Basis Reachability Graphs. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6162-6173.	5.9	1
7	A Polynomial Approach to Verifying the Existence of a Threatening Sensor Attacker. , 2022, 6, 2930-2935.		3
8	Consistent reduction in discrete-event systems. Automatica, 2022, 142, 110333.	3.0	0
9	A Framework for the Analysis of Supervised Discrete Event Systems Under Attack. Lecture Notes in Control and Information Sciences - Proceedings, 2022, , 529-546.	0.1	3
10	Verification of Detectability for Unambiguous Weighted Automata. IEEE Transactions on Automatic Control, 2021, 66, 1437-1444.	3.6	9
11	Distributed Fiedler Vector Estimation With Application to Desynchronization of Harmonic Oscillator Networks. , 2021, 5, 659-664.		4
12	Diagnosability enforcement in labeled Petri nets using supervisory control. Automatica, 2021, 131, 109776.	3.0	9
13	Parametric transformation of timed weighted marked graphs: applications in optimal resource allocation. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 179-188.	8.5	16
14	Joint State Estimation Under Attack of Discrete Event Systems. IEEE Access, 2021, 9, 168068-168079.	2.6	11
15	Marking Estimation in a Class of Time Labeled Petri Nets. IEEE Transactions on Automatic Control, 2020, 65, 493-506.	3.6	15
16	Containment of rumor spread in complex social networks. Information Sciences, 2020, 506, 113-130.	4.0	119
17	Divergence Properties of Labeled Petri Nets and Their Relevance for Diagnosability Analysis. IEEE Transactions on Automatic Control, 2020, 65, 3092-3097.	3.6	4
18	Computation of Admissible Marking Sets in Weighted Synchronization-Free Petri Nets by Dynamic Programming. IEEE Transactions on Automatic Control, 2020, 65, 2662-2669.	3.6	5

#	ARTICLE	IF	CITATIONS
19	Comments on "A new approach for the verification of infinite-step and K -step opacity using two-way observers" [Automatica 80 (2017) 162-171]. Automatica, 2020, 122, 109290.	3.0	8
20	A Discrete Event Formulation for Multi-Robot Collision Avoidance on Pre-planned Trajectories. IEEE Access, 2020, , 1-1.	2.6	5
21	A region-based approach for state estimation of timed automata under no event observation. , 2020, , .		1
22	On detectability of labeled Petri nets and finite automata. Discrete Event Dynamic Systems: Theory and Applications, 2020, 30, 465-497.	0.6	11
23	A nonlinear Perron-Frobenius approach for stability and consensus of discrete-time multi-agent systems. Automatica, 2020, 118, 109025.	3.0	7
24	Probabilistic verification of attack detection using logical observer. IFAC-PapersOnLine, 2020, 53, 95-100.	0.5	1
25	Instant detectability of discrete-event systems. IFAC-PapersOnLine, 2020, 53, 2137-2142.	0.5	0
26	Stealthy Sensor Attacks for Plants Modeled by Labeled Petri Nets. IFAC-PapersOnLine, 2020, 53, 14-20.	0.5	10
27	Detection and Prevention of Cyber-Attacks in Networked Control Systems. IFAC-PapersOnLine, 2020, 53, 7-13.	0.5	12
28	On Consistent Reduction in Discrete-Event Systems. , 2019, , .		2
29	A Two-Step Approach for Fault Diagnosis of Max-Plus Automata. , 2019, , .		3
30	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.	3.6	13
31	An improved approach for marking optimization of timed weighted marked graphs. Discrete Event Dynamic Systems: Theory and Applications, 2019, 29, 127-143.	0.6	3
32	State estimation of max-plus automata with unobservable events. Automatica, 2019, 105, 36-42.	3.0	16
33	Influence Maximization in Independent Cascade Networks Based on Activation Probability Computation. IEEE Access, 2019, 7, 13745-13757.	2.6	24
34	Rumor Containment by Spreading Correct Information in Social Networks. , 2019, , .		8
35	K -delayed strong detectability of discrete-event systems. , 2019, , .		11
36	Verification of Nonblockingness in Bounded Petri Nets With a Semi-Structural Approach. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
37	Correction to "Synchronizing sequences on a class of unbounded systems using synchronized Petri nets". Discrete Event Dynamic Systems: Theory and Applications, 2019, 29, 521-526.	0.6	0
38	Influence minimization in linear threshold networks. Automatica, 2019, 100, 10-16.	3.0	18
39	Enforcement of Diagnosability in Labeled Petri Nets via Optimal Sensor Selection. IEEE Transactions on Automatic Control, 2019, 64, 2997-3004.	3.6	26
40	Guest editorial: special issue on performance analysis and optimization of discrete event systems. Discrete Event Dynamic Systems: Theory and Applications, 2018, 28, 1-2.	0.6	0
41	Codiagnosability Analysis of Bounded Petri Nets. IEEE Transactions on Automatic Control, 2018, 63, 1192-1199.	3.6	56
42	Guest editorial: special issue on diagnosis, opacity and supervisory control of discrete event systems. Discrete Event Dynamic Systems: Theory and Applications, 2018, 28, 159-160.	0.6	0
43	Performance Optimization for Timed Weighted Marked Graphs Under Infinite Server Semantics. IEEE Transactions on Automatic Control, 2018, 63, 2573-2580.	3.6	19
44	Active Diagnosis for Switched Systems Using Mealy Machine Modeling. , 2018, , 147-173.		0
45	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
46	Lyapunov-Free Analysis for Consensus of Nonlinear Discrete- Time Multi-Agent Systems. , 2018, , .		2
47	Stealthy Attacks for Partially-Observed Discrete Event Systems. , 2018, , .		23
48	Decentralized Opacity Enforcement in Discrete Event Systems Using Supervisory Control. , 2018, , .		7
49	Weak (approximate) detectability of labeled Petri net systems with inhibitor arcs. IFAC-PapersOnLine, 2018, 51, 167-171.	0.5	7
50	PetriBaR: A MATLAB Toolbox for Petri Nets Implementing Basis Reachability Approaches. IFAC-PapersOnLine, 2018, 51, 316-322.	0.5	7
51	Design of Monitor-based Supervisors in Labelled Petri Nets. IFAC-PapersOnLine, 2018, 51, 374-380.	0.5	4
52	Influence Maximization by Link Activation in Social Networks. , 2018, , .		3
53	Computation of Activation Probabilities in the Independent Cascade Model. , 2018, , .		4
54	On the complexity and dynamical properties of mixed logical dynamical systems via an automaton-based realization of discrete-time hybrid automaton. International Journal of Robust and Nonlinear Control, 2018, 28, 4713-4746.	2.1	5

#	ARTICLE	IF	CITATIONS
55	Computation of synchronizing sequences for a class of 1-place-unbounded synchronized Petri nets. , 2018, , .		0
56	Petri nets and Automatic Control: A historical perspective. Annual Reviews in Control, 2018, 45, 223-239.	4.4	62
57	Basis Coverability Graph for Partially Observable Petri Nets with Application to Diagnosability Analysis. Lecture Notes in Computer Science, 2018, , 164-183.	1.0	4
58	Optimization of Deterministic Timed Weighted Marked Graphs. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1084-1095.	3.4	26
59	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
60	Characterization of Admissible Marking Sets in Petri Nets With Conflicts and Synchronizations. IEEE Transactions on Automatic Control, 2017, 62, 1329-1341.	3.6	68
61	Decidability of opacity verification problems in labeled Petri net systems. Automatica, 2017, 80, 48-53.	3.0	54
62	The 13th International Workshop on Discrete Event Systems (WODES 2016) [Conference Reports]. IEEE Control Systems, 2017, 37, 190-192.	1.0	0
63	Finite-Time Consensus on the Median Value With Robustness Properties. IEEE Transactions on Automatic Control, 2017, 62, 1652-1667.	3.6	60
64	Decentralized observability of discrete event systems with synchronizations. Automatica, 2017, 85, 468-476.	3.0	4
65	Gossip based asynchronous and randomized distributed task assignment with guaranteed performance on heterogeneous networks. Nonlinear Analysis: Hybrid Systems, 2017, 26, 292-306.	2.1	3
66	A heuristic algorithm to optimize execution time of multi-robot path. , 2017, , .		1
67	Verification of State-Based Opacity Using Petri Nets. IEEE Transactions on Automatic Control, 2017, 62, 2823-2837.	3.6	199
68	Cycle Time Optimization of Deterministic Timed Weighted Marked Graphs by Transformation. IEEE Transactions on Control Systems Technology, 2017, 25, 1318-1330.	3.2	18
69	55th IEEE Conference on Decision and Control, CDC 2016 [Conference Reports]. IEEE Control Systems, 2017, 37, 104-110.	1.0	0
70	Marking Estimation in Labelled Petri nets by the Representative Marking Graph. IFAC-PapersOnLine, 2017, 50, 11175-11181.	0.5	11
71	Modeling, analysis and control of Discrete Event Systems: a Petri net perspective. IFAC-PapersOnLine, 2017, 50, 1772-1783.	0.5	23
72	Minimizing the Influence Propagation in Social Networks for Linear Threshold Models. IFAC-PapersOnLine, 2017, 50, 14465-14470.	0.5	13

#	ARTICLE	IF	CITATIONS
73	Conversion of 1-Place-Unbounded Synchronized Petri Nets into Weighted Automata. IFAC-PapersOnLine, 2017, 50, 13434-13440.	0.5	0
74	Optimization of deterministic timed weighted marked graphs. , 2017, , .		0
75	Computation of admissible marking sets in weighted state machines by dynamic programming. , 2017, , .		1
76	Supervisory enforcement of current-state opacity with uncomparable observations. , 2016, , .		5
77	Verification of language-based opacity in Petri nets using verifier. , 2016, , .		21
78	Stationary behavior of manufacturing systems modeled by timed weighted marked graphs. , 2016, , .		0
79	Cycle time optimization for deterministic timed weighted marked graphs under infinite server semantics. , 2016, , .		1
80	Codiagnosability verification of bounded Petri nets using basis markings. , 2016, , .		1
81	On the Equivalence of Observation Structures for Petri Net Generators. IEEE Transactions on Automatic Control, 2016, 61, 2448-2462.	3.6	66
82	Petri net controllers for Generalized Mutual Exclusion Constraints with floor operators. Automatica, 2016, 74, 238-246.	3.0	22
83	Marking optimization of deterministic timed weighted marked graphs under infinite server semantics. , 2016, , .		1
84	Synchronizing sequences on a class of unbounded systems using synchronized Petri nets. Discrete Event Dynamic Systems: Theory and Applications, 2016, 26, 85-108.	0.6	14
85	Deployment of Applications in Wireless Sensor Networks: A Gossip-Based Lifetime Maximization Approach. IEEE Transactions on Control Systems Technology, 2016, 24, 1828-1836.	3.2	10
86	A method to verify the controllability of language specifications in Petri nets based on basis marking analysis. , 2015, , .		3
87	Cycle time optimization of deterministic timed weighted marked graphs. , 2015, , .		3
88	A constraint transformation technique in Petri nets with backward-conflict-free uncontrollable structures. , 2015, , .		3
89	Verification of initial-state opacity in Petri nets. , 2015, , .		18
90	Complete enumeration of minimal siphons in ordinary Petri nets based on problem partitioning. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
91	Verification of current-state opacity using Petri nets. , 2015, , .		12
92	Diagnosis and Diagnosability of Discrete Event Systems using Petri Nets. IFAC-PapersOnLine, 2015, 48, 179.	0.5	1
93	Distributed Task Assignment Based on Gossip with Guaranteed Performance on Heterogeneous Networks**The research leading to these results has received funding from Region Sardinia, LR 7/2007 (call 2010) under project SIAR (CRP24709) and from Italian grant SIR "Scientific Independence of young Researchers", project CoNetDomeSys, code RBS114OF6H, funded by the Italian Ministry of Research and Education (MIUR). IFAC-PapersOnLine, 2015, 48, 218-223.	0.5	1
94	Decentralized Supervision of Petri Nets With a Coordinator. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 955-966.	5.9	85
95	Design of Optimal Petri Net Controllers for Disjunctive Generalized Mutual Exclusion Constraints. IEEE Transactions on Automatic Control, 2015, 60, 1774-1785.	3.6	107
96	On the enforcement of a class of nonlinear constraints on Petri nets. Automatica, 2015, 55, 116-124.	3.0	101
97	Fast discrete consensus based on gossip for makespan minimization in networked systems. Automatica, 2015, 56, 60-69.	3.0	12
98	Finite-Time Consensus With Disturbance Rejection by Discontinuous Local Interactions in Directed Graphs. IEEE Transactions on Automatic Control, 2015, 60, 1133-1138.	3.6	98
99	Petri nets for the control of discrete event systems. Software and Systems Modeling, 2015, 14, 693-701.	2.2	12
100	Comments on "Maximally permissive supervisor synthesis based on a new constraint transformation method" [Automatica 48 (2012), 1097-1101]. Automatica, 2015, 51, 131-134.	3.0	7
101	Fault model identification and synthesis in Petri nets. Discrete Event Dynamic Systems: Theory and Applications, 2015, 25, 419-440.	0.6	33
102	Marking optimization of deterministic timed weighted marked graphs. , 2014, , .		7
103	Testing Experiments on Synchronized Petri Nets. IEEE Transactions on Automation Science and Engineering, 2014, 11, 125-138.	3.4	20
104	A survey on state estimation using Petri nets. , 2014, , .		1
105	Finite-time consensus on the median value by discontinuous control. , 2014, , .		19
106	Dynamics and steady state analysis of controlled Generalized Batches Petri Nets. Nonlinear Analysis: Hybrid Systems, 2014, 12, 33-49.	2.1	7
107	A Remark on the Decentralized Diagnosis of Labeled Petri Nets. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 1549-1549.	5.9	3
108	Supervisor synthesis for discrete event systems under partial observation and arbitrary forbidden state specifications. Discrete Event Dynamic Systems: Theory and Applications, 2014, 24, 275-307.	0.6	20

#	ARTICLE	IF	CITATIONS
109	Diagnosability of Discrete-Event Systems Using Labeled Petri Nets. IEEE Transactions on Automation Science and Engineering, 2014, 11, 144-153.	3.4	79
110	Stabilization of switched systems via optimal control. Nonlinear Analysis: Hybrid Systems, 2014, 11, 1-10.	2.1	27
111	A Constraint Transformation Technique for Petri Nets with Certain Uncontrollable Structures. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 66-72.	0.4	5
112	Observation Equivalence of Petri Net Generators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 338-343.	0.4	2
113	Testing experiments on unbounded systems: synchronizing sequences using Petri nets. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 155-161.	0.4	7
114	Fast Discrete Consensus Based on Gossip for Makespan Optimization in Networked Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7418-7423.	0.4	0
115	An Approach To Determine Controllability of Monolithic Supervisors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2429-2434.	0.4	1
116	Modelling Manufacturing Systems and Inventory Control Systems with Hybrid Petri Nets. Industrial Information Technology Series, 2014, , 75-103.	0.2	0
117	Leader-follower formation via complex Laplacian. Automatica, 2013, 49, 1900-1906.	3.0	183
118	Finite-time consensus for switching network topologies with disturbances. Nonlinear Analysis: Hybrid Systems, 2013, 10, 83-93.	2.1	50
119	A new algorithm to compute synchronizing sequences for synchronized Petri nets. , 2013, , .		8
120	Decentralized Diagnosis of Discrete-Event Systems Using Labeled Petri Nets. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 1477-1485.	5.9	25
121	Petri net controllers for disjunctive Generalized Mutual Exclusion Constraints. , 2013, , .		5
122	Decentralized estimation of Laplacian eigenvalues in multi-agent systems. Automatica, 2013, 49, 1031-1036.	3.0	117
123	IPA for continuous stochastic marked graphs. Automatica, 2013, 49, 1204-1215.	3.0	16
124	General observation structures for Petri nets. , 2013, , .		6
125	Active diagnosis for a class of switched systems. , 2013, , .		6
126	Finite-time consensus with disturbance attenuation for directed switching network topologies by discontinuous local interactions. , 2013, , .		8

#	ARTICLE	IF	CITATIONS
127	Diagnosis Using Labeled Petri Nets With Silent or Undistinguishable Fault Events. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 345-355.	5.9	34
128	A non-progressive model of innovation diffusion in social networks. , 2013, , .		8
129	On the Spread of Innovation in Social Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 322-327.	0.4	14
130	Structural Analysis of Petri Nets. Lecture Notes in Control and Information Sciences, 2013, , 213-233.	0.6	7
131	Supervisory Control of Petri Nets with Language Specifications. Lecture Notes in Control and Information Sciences, 2013, , 235-255.	0.6	22
132	Diagnosis of Petri Nets. Lecture Notes in Control and Information Sciences, 2013, , 279-300.	0.6	1
133	A decentralized lifetime maximization algorithm for distributed applications in Wireless Sensor Networks. , 2012, , .		8
134	A comparison among tools for the diagnosability of discrete event systems. , 2012, , .		8
135	Stationary behavior of controlled Generalized Batches Petri Nets. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 54-60.	0.4	2
136	Finite-Time Consensus based Clock Synchronization by Discontinuous Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 172-177.	0.4	2
137	Diagnosability analysis of an ABS system modeled using Petri nets. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 842-847.	0.4	3
138	A New Approach for Diagnosability Analysis of Petri Nets Using Verifier Nets. IEEE Transactions on Automatic Control, 2012, 57, 3104-3117.	3.6	123
139	In memoriam of Professor V. Lakshmikantham. Nonlinear Analysis: Hybrid Systems, 2012, 6, iv.	2.1	0
140	Robust common reference estimation and formation control for multi-agent systems. , 2012, , .		1
141	Special issue on recent trends in discrete event systems. Discrete Event Dynamic Systems: Theory and Applications, 2012, 22, 381-382.	0.6	0
142	Hybrid modeling and control of switching DC-DC converters via MLD systems. , 2011, , .		15
143	State Estimation and Fault Detection Using Petri Nets. Lecture Notes in Computer Science, 2011, , 38-48.	1.0	13
144	Distributed Averaging in Sensor Networks Based on Broadcast Gossip Algorithms. IEEE Sensors Journal, 2011, 11, 808-817.	2.4	67

#	ARTICLE	IF	CITATIONS
145	Decentralized Diagnosability Analysis of Discrete Event Systems using Petri Nets*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6060-6066.	0.4	4
146	Discrete event diagnosis using labeled Petri nets. An application to manufacturing systems. Control Engineering Practice, 2011, 19, 989-1001.	3.2	152
147	Quantized consensus in Hamiltonian graphs. Automatica, 2011, 47, 2495-2503.	3.0	20
148	Robust reconstruction of the discrete state for a class of nonlinear uncertain switched systems. Nonlinear Analysis: Hybrid Systems, 2011, 5, 220-232.	2.1	25
149	Welcome message from the program chair. , 2011, , .		0
150	Consensus-based decentralized supervision of Petri nets. , 2011, , .		2
151	On decentralized observability of discrete event systems. , 2011, , .		2
152	Linear programming techniques for analysis and control of batches Petri nets. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 1-6.	0.4	6
153	A new protocol for the decentralized diagnosis of labeled Petri nets. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 123-128.	0.4	6
154	Fault detection for discrete event systems using Petri nets with unobservable transitions. Automatica, 2010, 46, 1531-1539.	3.0	246
155	Decentralized diagnosis of Petri nets. , 2010, , .		9
156	Observability and controllability verification in multi-agent systems through decentralized Laplacian spectrum estimation. , 2010, , .		17
157	Decentralized stabilization of heterogeneous linear multi-agent systems. , 2010, , .		11
158	Constrained optimal control: an application to semiactive suspension systems. International Journal of Systems Science, 2010, 41, 797-811.	3.7	10
159	A Gossip-Based Algorithm for Discrete Consensus Over Heterogeneous Networks. IEEE Transactions on Automatic Control, 2010, 55, 1244-1249.	3.6	27
160	Diagnosis using labeled Petri nets: Faults may either be silent or undistinguishable events. , 2010, , .		4
161	Diagnosability analysis of unbounded Petri nets. , 2009, , .		34
162	Load balancing over heterogeneous networks with gossip-based algorithms. , 2009, , .		16

#	ARTICLE	IF	CITATIONS
163	Diagnosability of bounded Petri nets. , 2009, , .		38
164	Constrained invariant motions for networked multi-agent systems. , 2009, , .		6
165	Special Issue on WODESâ€™08. Discrete Event Dynamic Systems: Theory and Applications, 2009, 19, 449-450.	0.6	0
166	Decentralized Laplacian eigenvalues estimation for networked multi-agent systems. , 2009, , .		52
167	Decentralized fault diagnosis for sensor networks. , 2009, , .		6
168	Hamiltonian quantized gossip. , 2009, , .		1
169	Analisi dei sistemi dinamici. Unitext, 2009, , .	0.0	4
170	DEDS Special Issue on Discrete Event Methodologies for Hybrid Systems. Discrete Event Dynamic Systems: Theory and Applications, 2008, 18, 161-162.	0.6	2
171	First-order hybrid Petri nets. An application to distributed manufacturing systems. Nonlinear Analysis: Hybrid Systems, 2008, 2, 408-430.	2.1	56
172	Special issue on analysis and design of hybrid systems. Nonlinear Analysis: Hybrid Systems, 2008, 2, 695-696.	2.1	1
173	Modeling and Supervisory Control of Railway Networks Using Petri Nets. IEEE Transactions on Automation Science and Engineering, 2008, 5, 431-445.	3.4	127
174	A comparison between two diagnostic tools based on automata and Petri nets. , 2008, , .		9
175	Fault model identification with Petri nets. , 2008, , .		8
176	Optimal Model Predictive Control of Timed Continuous Petri Nets. IEEE Transactions on Automatic Control, 2008, 53, 1731-1735.	3.6	49
177	Properties of continuous Petri nets controlled via model predictive control. , 2008, , .		0
178	Linear programming techniques for the identification of place/transition nets. , 2008, , .		8
179	Motion probes for fault detection and recovery in networked control systems. , 2008, , .		32
180	Supervisor synthesis for discrete event systems with arbitrary forbidden state specifications. , 2008, , .		7

#	ARTICLE	IF	CITATIONS
181	Simulation and analysis of hybrid Petri nets using the Matlab tool HYPENS. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	4
182	A state estimation problem for timed continuous Petri nets. , 2007, , .		3
183	Decentralized Supervisory Control of Petri Nets with Monitor Places. , 2007, , .		2
184	Supervisory Control of Petri Nets with Decentralized Monitor Places. Proceedings of the American Control Conference, 2007, , .	0.0	9
185	Load balancing on networks with gossip-based distributed algorithms. , 2007, , .		12
186	State Estimation of Petri Nets by Transformation. , 2007, , .		3
187	Marking Estimation of Petri Nets With Silent Transitions. IEEE Transactions on Automatic Control, 2007, 52, 1695-1699.	3.6	93
188	An Optimization Approach to Petri Net Monitor Design. IEEE Transactions on Automatic Control, 2007, 52, 306-311.	3.6	45
189	Stabilization of switched affine systems: An application to the buck-boost converter. Proceedings of the American Control Conference, 2007, , .	0.0	43
190	Identification of Petri Nets from Knowledge of Their Language. Discrete Event Dynamic Systems: Theory and Applications, 2007, 17, 447-474.	0.6	66
191	A Systems Theory View of Petri Nets. , 2007, , 99-127.		22
192	Optimal Control of Continuous-Time Switched Affine Systems. IEEE Transactions on Automatic Control, 2006, 51, 726-741.	3.6	147
193	Constrained optimal control: an application to semiactive suspension systems. , 2006, , .		0
194	Power management in iBSS wireless networks: selective awakening of doze stations. , 2006, , .		0
195	Suboptimal supervisory control of Petri nets in presence of uncontrollable transitions via monitor places. Automatica, 2006, 42, 995-1004.	3.0	68
196	Monitor design for colored Petri nets: An application to deadlock prevention in railway networks. Control Engineering Practice, 2006, 14, 1231-1247.	3.2	48
197	Optimal control of discrete-time hybrid automata under safety and liveness constraints. Nonlinear Analysis: Theory, Methods & Applications, 2006, 65, 1188-1210.	0.6	12
198	Identification of unbounded Petri nets from their coverability graph. , 2006, , .		8

#	ARTICLE	IF	CITATIONS
199	Identification of deterministic Petri nets. , 2006, , .		12
200	On Sampling Continuous Timed Petri Nets: Reachability $\hat{=}$ Equivalence $\hat{=}$ Under Infinite Servers Semantics. , 2006, , 37-43.		6
201	NONBLOCKING CONTROL OF PETRI NETS USING UNFOLDING. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 73-78.	0.4	1
202	STABILIZATION OF SWITCHED SYSTEMS VIA OPTIMAL CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 199-204.	0.4	8
203	Control of Safe Ordinary Petri Nets Using Unfolding. Discrete Event Dynamic Systems: Theory and Applications, 2005, 15, 349-373.	0.6	18
204	State Estimation of τ -free Labeled Petri Nets with Contact-Free Nondeterministic Transitions*. Discrete Event Dynamic Systems: Theory and Applications, 2005, 15, 85-108.	0.6	37
205	Modelling and simulation of a bottling plant using hybrid Petri nets. International Journal of Production Research, 2005, 43, 1375-1395.	4.9	23
206	Observer-Based State-Feedback Control of Timed Petri Nets With Deadlock Recovery. IEEE Transactions on Automatic Control, 2004, 49, 17-29.	3.6	58
207	Optimal control of hybrid automata: design of a semiactive suspension. Control Engineering Practice, 2004, 12, 1305-1318.	3.2	35
208	Optimal stationary behavior for a class of timed continuous Petri nets. Automatica, 2004, 40, 1505-1516.	3.0	29
209	Counterexamples to $\hat{=}$ Liveness-Enforcing Supervision of Bounded Ordinary Petri Nets Using Partial-Order Methods $\hat{=}$. IEEE Transactions on Automatic Control, 2004, 49, 1217-1220.	3.6	6
210	Design of a Predictive Semiactive Suspension System. Vehicle System Dynamics, 2004, 41, 277-300.	2.2	60
211	A systems theory view of Petri nets. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 17-19.	0.4	2
212	Control of safe ordinary petri nets with marking specifications using unfolding. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 63-68.	0.4	6
213	State estimation and control of nondeterministic $\hat{=}$ -free labeled petri nets. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 411-416.	0.4	0
214	MARKING ESTIMATION OF PETRI NETS WITH PAIRS OF NONDETERMINISTIC TRANSITIONS. Asian Journal of Control, 2004, 6, 270-280.	1.9	6
215	Optimal State-Feedback Quadratic Regulation of Linear Hybrid Automata. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 367-372.	0.4	5
216	Design of a control law for a magneto-rheological suspension. , 2003, , .		2

#	ARTICLE	IF	CITATIONS
217	Observability of place/transition nets. IEEE Transactions on Automatic Control, 2002, 47, 1424-1437.	3.6	131
218	Firing rate optimization of cyclic timed event graphs by token allocations. Automatica, 2002, 38, 91-103.	3.0	27
219	Title is missing!. Discrete Event Dynamic Systems: Theory and Applications, 2002, 12, 253-264.	0.6	11
220	Optimal Petri Net Monitor Design. , 2002, , 141-153.		7
221	Design of Observers/Controllers for Discrete Event Systems Using Petri Nets. , 2002, , 167-182.		2
222	Modelling and simulation of manufacturing systems with first-order hybrid Petri nets. International Journal of Production Research, 2001, 39, 255-282.	4.9	58
223	Model reduction of finite-state machines by contraction. IEEE Transactions on Automatic Control, 2001, 46, 797-801.	3.6	1
224	Decidability results in First-Order Hybrid Petri Nets. Discrete Event Dynamic Systems: Theory and Applications, 2001, 11, 41-57.	0.6	16
225	Observer-Controller Design for Three Dimensional Overhead Cranes Using Time-Scaling. Mathematical and Computer Modelling of Dynamical Systems, 2001, 7, 77-107.	1.4	16
226	The observer coverability graph for the analysis of observability properties of Place/Transition nets. , 2001, , .		2
227	A Mixed Suspension System for a Half-Car Vehicle Model. Journal of Dynamical and Control Systems, 2000, 10, 375-397.	0.4	21
228	First-order hybrid Petri nets: a model for optimization and control. IEEE Transactions on Automation Science and Engineering, 2000, 16, 382-399.	2.4	178
229	Optimal Token Allocation in Timed Cyclic Event-Graphs. , 2000, , 209-218.		6
230	Semiactive Suspension Design with an Optimal Gain Switching Target. Vehicle System Dynamics, 1999, 31, 213-232.	2.2	45
231	Observer-controller design for cranes via Lyapunov equivalence. Automatica, 1999, 35, 669-678.	3.0	57
232	A Neural Network Diagnosis Approach for Analog Circuits. Applied Intelligence, 1999, 11, 169-186.	3.3	25
233	Petri Net Languages and Infinite Subsets of Nm. Journal of Computer and System Sciences, 1999, 59, 373-391.	0.9	24
234	A linear state variable model for first-order hybrid petri nets. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 4911-4916.	0.4	2

#	ARTICLE	IF	CITATIONS
235	Discrete event representation of qualitative models using Petri nets. IEEE Transactions on Systems, Man, and Cybernetics, 1998, 28, 770-780.	5.5	7
236	An implicit gain-scheduling controller for cranes. IEEE Transactions on Control Systems Technology, 1998, 6, 15-20.	3.2	116
237	A Survey of Petri Net Methods for Controlled Discrete Event Systems. Discrete Event Dynamic Systems: Theory and Applications, 1997, 7, 151-190.	0.6	353
238	Deterministic weak-and-marked Petri net languages are regular. IEEE Transactions on Automatic Control, 1996, 41, 1802-1803.	3.6	2
239	An H ₂ Formulation for the Design of a Passive Vibration-Isolation System for Cars. Vehicle System Dynamics, 1996, 26, 381-393.	2.2	11
240	Decidability and closure properties of weak Petri net languages in supervisory control. IEEE Transactions on Automatic Control, 1995, 40, 906-910.	3.6	22
241	Blocking and controllability of Petri nets in supervisory control. IEEE Transactions on Automatic Control, 1994, 39, 818-823.	3.6	68
242	Petri net structural analysis for supervisory control. IEEE Transactions on Automation Science and Engineering, 1994, 10, 185-195.	2.4	78
243	Qualitative dynamic diagnosis of circuits. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 1993, 7, 53-64.	0.7	8
244	Generalized mutual exclusion constraints on nets with uncontrollable transitions. , 0, , .		234
245	Model Reduction of Finite State Machines by Contraction. , 0, , .		0
246	Deadlock recovery of Petri net models controlled using observers. , 0, , .		17
247	An iterative algorithm for the optimal control of continuous-time switched linear systems. , 0, , .		11
248	Identification of free-labeled Petri nets via integer programming. , 0, , .		30
249	Optimal Control of Continuous Petri Nets Via Model Predictive Control. , 0, , .		13
250	Modelling Systems by Hybrid Petri Nets: an Application to Supply Chains. , 0, , .		6