Christoforos N Hadjicostis

List of Publications by Citations

188 papers	**3,504** citations	**32** h-index	**53** g-index
225 ext. papers	**4,372** ext. citations	**3.7** avg, IF	**6.13** L-index

#	Paper	IF	Citations
188	. *IEEE Transactions on Automatic Control*, **2011**, 56, 1495-1508	5.9	279
187	. *IEEE Transactions on Power Systems*, **2013**, 28, 1470-1482	7	187
186	Notions of security and opacity in discrete event systems **2007**,		114
185	. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 4613-4623	8.9	102
184	. *IEEE Journal on Selected Areas in Communications*, **2008**, 26, 650-660	14.2	96
183	Verification of initial-state opacity in security applications of discrete event systems. *Information Sciences*, **2013**, 246, 115-132	7.7	88
182	Fault Diagnosis in Discrete Event Systems Modeled by Partially Observed Petri Nets. *Discrete Event Dynamic Systems: Theory and Applications*, **2009**, 19, 551-575	1	86
181	Delayed Observers for Linear Systems With Unknown Inputs. *IEEE Transactions on Automatic Control*, **2007**, 52, 334-339	5.9	83
180	. *IEEE Transactions on Control Systems Technology*, **2015**, 23, 1717-1735	4.8	77
179	Average Consensus in the Presence of Delays in Directed Graph Topologies. *IEEE Transactions on Automatic Control*, **2014**, 59, 763-768	5.9	75
178	Verification of K-Step Opacity and Analysis of Its Complexity. *IEEE Transactions on Automation Science and Engineering*, **2011**, 8, 549-559	4.9	74
177	Verification of Infinite-Step Opacity and Complexity Considerations. *IEEE Transactions on Automatic Control*, **2012**, 57, 1265-1269	5.9	71
176	Decentralized optimal dispatch of distributed energy resources **2012**,		70
175	On the history of diagnosability and opacity in discrete event systems. *Annual Reviews in Control*, **2018**, 45, 257-266	10.3	68
174	**2013**,		66
173	. *IEEE Transactions on Automatic Control*, **2012**, 57, 1155-1165	5.9	63
172	. *IEEE Transactions on Automatic Control*, **2014**, 59, 120-133	5.9	62

171	Coordination and Control of Distributed Energy Resources for Provision of Ancillary Services **2010**,		62
170	Finite-Time Distributed Consensus in Graphs with Time-Invariant Topologies. *Proceedings of the American Control Conference*, **2007**,	1.2	62
169	Resilient Networked Control of Distributed Energy Resources. *IEEE Journal on Selected Areas in Communications*, **2012**, 30, 1137-1148	14.2	57
168	Algebraic approaches for fault identification in discrete-event systems. *IEEE Transactions on Automatic Control*, **2005**, 50, 2048-2055	5.9	56
167	Structural Controllability and Observability of Linear Systems Over Finite Fields With Applications to Multi-Agent Systems. *IEEE Transactions on Automatic Control*, **2013**, 58, 60-73	5.9	55
166	. *IEEE Transactions on Control of Network Systems*, **2015**, 2, 370-381	4	53
165	Distributed Matrix Scaling and Application to Average Consensus in Directed Graphs. *IEEE Transactions on Automatic Control*, **2013**, 58, 667-681	5.9	47
164	Distributed algorithms for control of demand response and distributed energy resources **2011**,		45
163	The wireless control network: Monitoring for malicious behavior **2010**,		45
162	Verification of initial-state opacity in security applications of DES **2008**,		44
161	. *IEEE Transactions on Control of Network Systems*, **2016**, 3, 137-148	4	43
160	Monitoring Discrete Event Systems Using Petri Net Embeddings. *Lecture Notes in Computer Science*, **1999**, 188-207	0.9	43
159	Distributed strategies for average consensus in directed graphs **2011**,		36
158	. *IEEE Transactions on Control of Network Systems*, **2014**, 1, 190-201	4	35
157	. *IEEE Transactions on Automatic Control*, **2016**, 61, 1492-1507	5.9	34
156	**2008**,		32
155	Bounds on the Number of Markings Consistent With Label Observations in Petri Nets. *IEEE Transactions on Automation Science and Engineering*, **2009**, 6, 334-344	4.9	30
154	Soft-Decision Decoding Using Ordered Recodings on the Most Reliable Basis. *IEEE Transactions on Information Theory*, **2007**, 53, 829-836	2.8	30

153	**2012**,		26
152	Sensor Selection for Structural Observability in Discrete Event Systems Modeled by Petri Nets. *IEEE Transactions on Automatic Control*, **2010**, 55, 1751-1764	5.9	26
151	Partial state observers for linear systems with unknown inputs. *Automatica*, **2008**, 44, 3126-3132	5.7	26
150	. *IEEE Transactions on Automatic Control*, **2013**, 58, 198-203	5.9	24
149	. *IEEE Transactions on Automation Science and Engineering*, **2011**, 8, 394-403	4.9	24
148	Detectability in stochastic discrete event systems. *Systems and Control Letters*, **2015**, 84, 21-26	2.4	23
147	Fault model identification and synthesis in Petri nets. *Discrete Event Dynamic Systems: Theory and Applications*, **2015**, 25, 419-440	1	23
146	. *IEEE Transactions on Control of Network Systems*, **2017**, 4, 380-391	4	22
145	Verification of detectability in Probabilistic Finite Automata. *Automatica*, **2017**, 86, 192-198	5.7	21
144	Opacity-enforcing supervisory strategies for secure discrete event systems **2008**,		21
143	Distributed function calculation via linear iterations in the presence of malicious agents Part II: Overcoming malicious behavior **2008**,		21
142	Probabilistic approaches to fault detection in networked discrete event systems. *IEEE Transactions on Neural Networks*, **2005**, 16, 1042-52		20
141	Coding Approaches to Fault Tolerance in Combinational and Dynamic Systems **2002**,		20
140	Finite-Time Approximate Consensus and Its Application to Distributed Frequency Regulation in Islanded AC Microgrids **2015**,		19
139	Privacy-Preserving Distributed Averaging via Homomorphically Encrypted Ratio Consensus. *IEEE Transactions on Automatic Control*, **2020**, 65, 3887-3894	5.9	19
138	Designing Stable Inverters and State Observers for Switched Linear Systems with Unknown Inputs **2006**,		19
137	Probabilistic Marking Estimation in Labeled Petri Nets. *IEEE Transactions on Automatic Control*, **2015**, 60, 528-533	5.9	18
136	Distributed strategies for balancing a weighted digraph **2012**,		18

135	Coverage analysis of mobile agent trajectory via state-based opacity formulations. *Control Engineering Practice*, **2011**, 19, 967-977	3.9	18
134	Comments on "A modified reachability tree approach to analysis of unbounded Petri nets". *IEEE Transactions on Systems, Man, and Cybernetics*, **2006**, 36, 1210		18
133	Distributed stopping for average consensus in undirected graphs via event-triggered strategies. *Automatica*, **2016**, 70, 121-127	5.7	17
132	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	1	16
131	Soft-Decision Decoding of Linear Block Codes Using Preprocessing and Diversification. *IEEE Transactions on Information Theory*, **2007**, 53, 378-393	2.8	16
130	Probabilistic system opacity in discrete event systems. *Discrete Event Dynamic Systems: Theory and Applications*, **2018**, 28, 289-314	1	16
129	State Estimation in Discrete Event Systems Modeled by Labeled Petri Nets **2006**,		14
128	Robust average consensus over packet dropping links: Analysis via coefficients of ergodicity **2012**,		13
127	Estimation and Inference in Discrete Event Systems. *Communications and Control Engineering*, **2020**,	0.6	13
126	Distributed Averaging and Balancing in Network Systems. *Foundations and Trends in Systems and Control*, **2018**, 5, 99-292	4	12
125	Control of distributed energy resources for reactive power support **2011**,		12
124	. *IEEE Transactions on Signal Processing*, **2008**, 56, 1043-1054	4.8	12
123	. *IEEE Transactions on Control of Network Systems*, **2018**, 5, 957-967	4	11
122	Opacity verification in stochastic discrete event systems **2010**,		11
121	Small inverter-interfaced distributed energy resources for reactive power support **2011**,		11
120	Verification of Infinite-Step Opacity and Analysis of its Complexity*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 46-51		11
119	Asynchronous coordination of distributed energy resources for the provisioning of ancillary services **2011**,		10
118	Verification of K-step opacity and analysis of its complexity **2009**,		10

99	Three-DOF dynamic model with lubricant contact for thermal fly-height control nanotechnology. *Journal Physics D: Applied Physics*, **2012**, 45, 135402	3	7
98	Optimal State Estimators for Linear Systems with Unknown Inputs **2006**,		7
97	Distributed balancing in digraphs under interval constraints **2016**,		7
96	Distributed diagnosis using predetermined synchronization strategies in the presence of communication constraints **2015**,		6
95	**2008**,		6
94	Distributed Consensus and Linear Functional Calculation in Networks: An Observability Perspective **2007**,		6
93	Max-product algorithms for the generalized multiple-fault diagnosis problem. *IEEE Transactions on Systems, Man, and Cybernetics*, **2007**, 37, 1607-21		6
92	K-detectability in discrete event systems **2016**,		6
91	Privacy-Preserving Average Consensus over Digraphs in the Presence of Time Delays **2019**,		6
90	Distributed Balancing of Commodity Networks Under Flow Interval Constraints. *IEEE Transactions on Automatic Control*, **2019**, 64, 51-65	5.9	6
89	. *IEEE Transactions on Control of Network Systems*, **2018**, 5, 1646-1656	4	5
88	Distributed stopping for average consensus using double linear iterative strategies **2014**,		5
87	Distributed balancing of a digraph with integer weights **2013**,		5
86	Least-cost planning sequence estimation in labelled Petri nets. *Transactions of the Institute of Measurement and Control*, **2011**, 33, 317-331	1.8	5
85	. *IEEE Transactions on Communications*, **2008**, 56, 2050-2059	6.9	5
84	Fault model identification with Petri nets **2008**,		5
83	Fault-Tolerant Supervisory Control of Discrete Event Systems Modeled by Bounded Petri Nets. *Proceedings of the American Control Conference*, **2007**,	1.2	5
82	. *IEEE Transactions on Signal Processing*, **2007**, 55, 4444-4457	4.8	5

81	Totally asynchronous distributed estimation of eigenvector centrality in digraphs with application to the PageRank problem **2016**,		5
80	**2016**,		5
79	Exposure Time as a Measure of Opacity in Timed Discrete Event Systems **2019**,		5
78	Trajectory-observers of timed stochastic discrete event systems: Applications to privacy analysis **2019**,		4
77	Distributed Integer Weight Balancing in the Presence of Time Delays in Directed Graphs. *IEEE Transactions on Control of Network Systems*, **2018**, 5, 1300-1309	4	4
76	Initial marking estimation in labeled Petri nets in a probabilistic setting **2014**,		4
75	Decentralised minimum-time average consensus in digraphs **2013**,		4
74	Marking Observer of Labeled Petri Nets with Uncertainty in the Initial Marking **2013**,		4
73	Probabilistic marking estimation in labeled Petri nets **2013**,		4
72	Optimal encoder and control strategies in stochastic control subject to rate constraints for channels with memory and feedback **2011**,		4
71	Resolution of initial-state in security applications of DES **2012**,		4
70	Graphical Inference Methods for Fault Diagnosis based on Information from Unreliable Sensors **2006**,		4
69	Probabilistic system opacity in discrete event systems **2016**,		4
68	Trajectory Planning under Current-State Opacity Constraints. *IFAC-PapersOnLine*, **2018**, 51, 337-342	0.7	4
67	Distributed Flow Network Balancing With Minimal Effort. *IEEE Transactions on Automatic Control*, **2019**, 64, 3529-3543	5.9	3
66	Distributed Balancing With Constrained Integer Weights. *IEEE Transactions on Automatic Control*, **2019**, 64, 2553-2558	5.9	3
65	*. IEEE Transactions on Control of Network Systems*, **2020**, 7, 315-325	4	3
64	Privacy and safety analysis of timed stochastic discrete event systems using Markovian trajectory-observers. *Discrete Event Dynamic Systems: Theory and Applications*, **2020**, 30, 413-440	1	3

63	Detectability in Stochastic Discrete Event Systems. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 27-32		3
62	Distributed balancing under interval flow constraints in directed communication topologies **2017**,		3
61	Average consensus in the presence of dynamically changing directed topologies and time delays **2014**,		3
60	**2009**,		3
59	Information dissemination in networks via linear iterative strategies over finite fields **2009**,		3
58	Robust Linear Quadratic Regulator for uncertain systems **2016**,		3
57	Event-Triggered Quantized Average Consensus via Ratios of Accumulated Values. *IEEE Transactions on Automatic Control*, **2021**, 66, 1293-1300	5.9	3
56	Distributed Average Consensus under Quantized Communication via Event- Triggered Mass Summation **2018**,		3
55	. *IEEE Transactions on Automatic Control*, **2017**, 62, 1030-1045	5.9	2
54	Hidden Markov Model Classification based on Empirical Frequencies of Observed Symbols. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 7-12		2
53	Control of quantized multi-agent systems with linear nearest neighbor rules: A finite field approach **2010**,		2
52	Supervisory control strategies for enhancing system security and privacy **2010**,		2
51	. *IEEE Transactions on Information Forensics and Security*, **2008**, 3, 370-380	8	2
50	Distributed calculation of linear functions in noisy networks via linear iterations **2008**,		2
49	Feedback control over packet dropping network links **2007**,		2
48	Model-Based Fault Detection in Power Systems **2006**,		2
47	Distributed formation of balanced and bistochastic weighted digraphs in multi-agent systems **2013**,		2
46	Decentralized state estimation in discrete event systems under partially ordered observation sequences **2016**,		2

45	Distributed resource coordination in networked systems described by digraphs. *Systems and Control Letters*, **2015**, 82, 33-39	2.4	1
44	Distributed flow balancing over unreliable communication links **2017**,		1
43	Detection of collaborative cyber-attacks through correlation and time dependency analysis **2016**,		1
42	Approximation of Markov processes by lower dimensional processes **2014**,		1
41	Distributed weight balancing under integer constraints in the presence of packet drops **2017**,		1
40	**2014**,		1
39	Distributed minimum-time weight balancing over digraphs **2014**,		1
38	Capacity of channels with memory and feedback: Encoder properties and dynamic programming **2010**,		1
37	**2011**,		1
36	A novel 3-d model for node and system trust **2011**,		1
35	Linear iterative strategies for transmitting streams of values through sensor networks **2009**,		1
34	Approximating optimal place sensor selection for structural observability in discrete event systems modeled by Petri Nets **2007**,		1
33	OPTIMAL SENSOR SELECTION FOR STRUCTURAL OBSERVABILITY IN DISCRETE EVENT SYSTEMS MODELED BY PETRI NETS. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2007**, 40, 223-228		1
32	Error detection and correction in switched linear controllers via periodic and non-concurrent checks. *Automatica*, **2006**, 42, 383-391	5.7	1
31	Periodic and non-concurrent error detection and identification in one-hot encoded FSMs. *Automatica*, **2004**, 40, 1665-1676	5.7	1
30	Introduction to Estimation and Inference in Discrete Event Systems. *Communications and Control Engineering*, **2020**, 1-14	0.6	1
29	Exposure and Revelation Times as a Measure of Opacity in Timed Stochastic Discrete Event Systems. *IEEE Transactions on Automatic Control*, **2020**, 1-1	5.9	1
28	Probabilistic verification of attack detection using logical observer. *IFAC-PapersOnLine*, **2020**, 53, 95-100	0.7	1

27	Robust LQG for Markov Jump Linear Systems **2019**,		1
26	Revelation Time for Initial-State Opacity Measurement in Timed Discrete Event Systems **2019**,		1
25	When to stop iterating in digraphs of unknown size? An application to finite-time average consensus **2018**,		1
24	Probabilistic state estimation for labeled continuous time Markov models with applications to attack detection. *Discrete Event Dynamic Systems: Theory and Applications*,1	1	1
23	State-labeled safety analysis of modular observers for opacity verification **2022**, 1-1		1
22	. *IEEE Journal on Selected Areas in Communications*, **2008**, 26, 596-608	14.2	0
21	Distributed Average Consensus under Quantized Communication via Event-Triggered Mass Splitting. *IFAC-PapersOnLine*, **2020**, 53, 2957-2962	0.7	0
20	Distributed Balancing under Flow Constraints over Arbitrary Communication Topologies. *IEEE Transactions on Automatic Control*, **2020**, 1-1	5.9	0
19	Distributed Integer Balancing Under Weight Constraints in the Presence of Transmission Delays. *IEEE Transactions on Automatic Control*, **2021**, 66, 1910-1917	5.9	0
18	Jump LQR Systems With Unknown Transition Probabilities. *IEEE Transactions on Automatic Control*, **2021**, 66, 2693-2708	5.9	0
17	Observers for a class of timed automata based on elapsed time graphs. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	0
16	Distributed Average Consensus in Digraphs. *Lecture Notes in Control and Information Sciences*, **2015**, 375-382		
15	Convergence of Belief Propagation Algorithms on Binary Pairwise Gibbs Random Fields. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 4161-4166		
14	Optimal Encoders Maximizing Directed Information of Channels with Memory and Feedback: Stochastic Control and Dynamic Programming. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 6598-6603		
13	Dynamical Models in Fault-Tolerant Operation and Control of Energy Processing Systems **2010**, 15-45		
12	Nonconcurrent Error Correction in the Presence of Roundoff Noise. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2009**, 56, 473-484	3.9	
11	Plant Reliability in Monopolies and Duopolies: A Comparison of Market Outcomes with Socially Optimal Levels **2009**, 113-129		
10	Algorithmic design of perfectly reconstructing equalisers. *International Journal of Systems, Control and Communications*, **2010**, 2, 238	0.5	

9   Bounds on FSM Switching Activity. *Journal of Signal Processing Systems*, **2008**, 53, 411-418   1.4

8   Decentralized State Estimation. *Communications and Control Engineering*, **2020**, 251-303   0.6

7   Detectability. *Communications and Control Engineering*, **2020**, 155-183   0.6

6   Diagnosability. *Communications and Control Engineering*, **2020**, 185-223   0.6

5   Verification of State Isolation Properties. *Communications and Control Engineering*, **2020**, 119-153   0.6

4   Opacity. *Communications and Control Engineering*, **2020**, 225-249   0.6

3   State Estimation. *Communications and Control Engineering*, **2020**, 69-117   0.6

2   Distributed State Estimation. *Communications and Control Engineering*, **2020**, 305-342   0.6

1   Editorial - Thirty years of J-DEDS: moving on with new leadership. *Discrete Event Dynamic Systems: Theory and Applications*, **2021**, 31, 1-3   1