

Roberto Tempo

List of Publications by Year in descending order

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65
papers

2,795
citations

257450

24
h-index

289244

40
g-index

68
all docs

68
docs citations

68
times ranked

1506
citing authors

#	ARTICLE	IF	CITATIONS
1	A tutorial on modeling and analysis of dynamic social networks. Part I. Annual Reviews in Control, 2017, 43, 65-79.	7.9	322
2	Network science on belief system dynamics under logic constraints. Science, 2016, 354, 321-326.	12.6	252
3	Novel Multidimensional Models of Opinion Dynamics in Social Networks. IEEE Transactions on Automatic Control, 2017, 62, 2270-2285.	5.7	226
4	Robust control of uncertain systems: Classical results and recent developments. Automatica, 2014, 50, 1315-1335.	5.0	191
5	A tutorial on modeling and analysis of dynamic social networks. Part II. Annual Reviews in Control, 2018, 45, 166-190.	7.9	180
6	Randomized Strategies for Probabilistic Solutions of Uncertain Feasibility and Optimization Problems. IEEE Transactions on Automatic Control, 2009, 54, 2545-2559.	5.7	151
7	Research on probabilistic methods for control system design. Automatica, 2011, 47, 1279-1293.	5.0	142
8	Randomized methods for design of uncertain systems: Sample complexity and sequential algorithms. Automatica, 2015, 52, 160-172.	5.0	115
9	Distributed Randomized Algorithms for the PageRank Computation. IEEE Transactions on Automatic Control, 2010, 55, 1987-2002.	5.7	111
10	Resilient Randomized Quantized Consensus. IEEE Transactions on Automatic Control, 2018, 63, 2508-2522.	5.7	107
11	Monte Carlo and Las Vegas Randomized Algorithms for Systems and Control*. European Journal of Control, 2007, 13, 189-203.	2.6	92
12	Probabilistic design of LPV control systems. Automatica, 2003, 39, 1323-1337.	5.0	91
13	Ergodic Randomized Algorithms and Dynamics Over Networks. IEEE Transactions on Control of Network Systems, 2015, 2, 78-87.	3.7	86
14	The PageRank Problem, Multiagent Consensus, and Web Aggregation: A Systems and Control Viewpoint. IEEE Control Systems, 2014, 34, 34-53.	0.8	72
15	A Web Aggregation Approach for Distributed Randomized PageRank Algorithms. IEEE Transactions on Automatic Control, 2012, 57, 2703-2717.	5.7	64
16	Worst-case properties of the uniform distribution and randomized algorithms for robustness analysis. Mathematics of Control, Signals, and Systems, 1998, 11, 183-196.	2.3	60
17	Randomized algorithms for quadratic stability of quantized sampled-data systems. Automatica, 2004, 40, 839-846.	5.0	39
18	A survey of randomized algorithms for control synthesis and performance verification. Journal of Complexity, 2007, 23, 301-316.	1.3	37

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19	Distributed randomized algorithms for opinion formation, centrality computation and power systems estimation: A tutorial overview. <i>European Journal of Control</i> , 2015, 24, 2-13.	2.6	37
20	Convergence Properties of the Membership Set. <i>Automatica</i> , 1998, 34, 1245-1249.	5.0	35
21	Mixed Deterministic/Randomized Methods for Fixed Order Controller Design. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 2033-2047.	5.7	35
22	Distributed Algorithms for Robust Convex Optimization via the Scenario Approach. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 880-895.	5.7	34
23	Learning Influence Structure in Sparse Social Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2018, 5, 1976-1986.	3.7	32
24	Sensor Selection and Precoding Strategies for Wireless Sensor Networks. <i>IEEE Transactions on Signal Processing</i> , 2015, 63, 4411-4421.	5.3	24
25	On the Sample Complexity of Probabilistic Analysis and Design Methods. <i>Lecture Notes in Control and Information Sciences</i> , 2010, , 39-50.	1.0	22
26	Randomized Algorithms for Stability and Robustness Analysis of High-Speed Communication Networks. <i>IEEE Transactions on Neural Networks</i> , 2005, 16, 1229-1241.	4.2	20
27	Anytime reliable LDPC convolutional codes for networked control over wireless channel. , 2013, , .		18
28	Distributed randomized PageRank computation based on web aggregation. , 2009, , .		15
29	Almost sure convergence of a randomized algorithm for relative localization in sensor networks. , 2013, , .		12
30	A distributed randomized algorithm for relative localization in sensor networks. , 2013, , .		12
31	Randomized algorithms for analysis and control of uncertain systems: An overview. , 2001, , 347-362.		11
32	Randomization-based control design for Mini-UAVs. <i>Control Engineering Practice</i> , 2009, 17, 974-983.	5.5	11
33	Hard Bounds on the Probability of Performance With Application to Circuit Analysis. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008, 55, 3178-3187.	5.4	10
34	PageRank computation via a distributed randomized approach with lossy communication. <i>Systems and Control Letters</i> , 2012, 61, 1221-1228.	2.3	10
35	A statistical learning theory approach for uncertain linear and bilinear matrix inequalities. <i>Automatica</i> , 2014, 50, 1617-1625.	5.0	10
36	Probabilistic Optimal Estimation With Uniformly Distributed Noise. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 2113-2127.	5.7	10

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37	Representation and identification of non-parametric nonlinear systems of short term memory and low degree of interaction. Automatica, 2010, 46, 1595-1603.	5.0	9
38	A distributed randomized approach for the PageRank computation: Part 2. , 2008, , .		8
39	A distributed randomized approach for the PageRank computation: Part 1. , 2008, , .		8
40	Distributed PageRank computation with link failures. , 2009, , .		7
41	Mountains and Control [President's Message]. IEEE Control Systems, 2010, 30, 12-15.	0.8	7
42	Randomized approaches and adaptive control for quadrotor UAVs. , 2013, , .		7
43	A Mixed Probabilistic/Deterministic Approach to Fixed Order H_{∞} Controller Design. , 2006, , .		6
44	Probabilistic sorting and stabilization of switched systems. Automatica, 2009, 45, 776-782.	5.0	6
45	Randomized Approaches for Control of QuadRotor UAVs. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 73, 157-173.	3.4	5
46	A Markov Chain Monte Carlo Approach to Nonlinear Parametric System Identification. IEEE Transactions on Automatic Control, 2015, 60, 2542-2546.	5.7	5
47	Robust and Randomized Control Design of Mini-UAVs: The MH1000 Platform. Proceedings of the American Control Conference, 2007, , .	0.0	4
48	A probabilistic approach to optimal estimation part I: Problem formulation and methodology. , 2012, , .		4
49	On the sample complexity of uncertain linear and bilinear matrix inequalities. , 2013, , .		4
50	Las Vegas randomized algorithms in distributed consensus problems. , 2008, , .		3
51	Distributed randomized pagerank algorithms based on web aggregation over unreliable channels. , 2010, , .		3
52	A probabilistic approach to optimal estimation - Part II: algorithms and applications. , 2012, , .		3
53	Recursive system identification in the presence of noise and model uncertainties. Systems and Control Letters, 1997, 32, 57-62.	2.3	2
54	A new approach for aggregated PageRank computation via distributed randomized algorithms. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
55	A simulation-based approach for control design of uncertain UAVs. , 2012, , .		2
56	Recent results on the analytic center approach for bounded error parameter estimation. , 1999, , 245-253.		1
57	Fragile link structure in PageRank computation. , 2009, , .		1
58	Internationalization and Globalization [President's Message]. IEEE Control Systems, 2010, 30, 9-10.	0.8	1
59	Editorial A Beautiful Time. IEEE Transactions on Automatic Control, 2009, 54, 421-421.	5.7	0
60	Research, a Never-Ending Story [President's Message]. IEEE Control Systems, 2010, 30, 11-13.	0.8	0
61	From Hard Copy to Electronic [President's Message]. IEEE Control Systems, 2010, 30, 13-18.	0.8	0
62	Handwriting, Typing, and LaTeX [President's Message]. IEEE Control Systems, 2010, 30, 12-13.	0.8	0
63	The Data Deluge and Obliquity for Control [President's Message]. IEEE Control Systems, 2010, 30, 12-21.	0.8	0
64	52nd IEEE Conference on Decision and Control in Florence, Italy [CDC Preview]. IEEE Control Systems, 2013, 33, 85-89.	0.8	0
65	52nd IEEE Conference on Decision and Control [Conference Reports]. IEEE Control Systems, 2014, 34, 93-105.	0.8	0