

Ali Jadbabaie

List of Publications by Citations

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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.

123
papers

4,731
citations

31
h-index

67
g-index

141
ext. papers

5,990
ext. citations

4.4
avg, IF

6.07
L-index

#	Paper	IF	Citations
123	Flocking in Fixed and Switching Networks. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 863-868	5.9	956
122	A Necessary and Sufficient Condition for Consensus Over Random Networks. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 791-795	5.9	302
121	A Framework for Worst-Case and Stochastic Safety Verification Using Barrier Certificates. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 1415-1428	5.9	243
120	Non-Bayesian social learning. <i>Games and Economic Behavior</i> , 2012 , 76, 210-225	1.1	233
119	Decentralized Control of Connectivity for Multi-Agent Systems 2006 ,		152
118	Optimal Resource Allocation for Network Protection Against Spreading Processes. <i>IEEE Transactions on Control of Network Systems</i> , 2014 , 1, 99-108	4	145
117	Hybrid Control for Connectivity Preserving Flocking. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 2869-2875	5.9	145
116	Consensus Over Ergodic Stationary Graph Processes. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 225-230	5.9	143
115	Vision-Based, Distributed Control Laws for Motion Coordination of Nonholonomic Robots. <i>IEEE Transactions on Robotics</i> , 2009 , 25, 851-860	6.5	139
114	Effects of Delay in Multi-Agent Consensus and Oscillator Synchronization. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1471-1477	5.9	129
113	A Distributed Newton Method for Network Utility Maximization Algorithm. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 2162-2175	5.9	113
112	Flocking while preserving network connectivity 2007 ,		108
111	Distributed Geodesic Control Laws for Flocking of Nonholonomic Agents. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 681-686	5.9	105
110	Simplicial closure and higher-order link prediction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E11221-E11230	11.5	104
109	Optimal Control of Spatially Distributed Systems. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 1616-1629	5.9	101
108	Approximation of the joint spectral radius using sum of squares. <i>Linear Algebra and Its Applications</i> , 2008 , 428, 2385-2402	0.9	85
107	Distributed Online Optimization in Dynamic Environments Using Mirror Descent. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 714-725	5.9	80

106	Optimal vaccine allocation to control epidemic outbreaks in arbitrary networks 2013 ,		74
105	Distributed Coverage Verification in Sensor Networks Without Location Information. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1837-1849	5.9	64
104	A Theory of Non-Bayesian Social Learning. <i>Econometrica</i> , 2018 , 86, 445-490	4.9	54
103	On connectivity, observability, and stability in distributed estimation 2010 ,		54
102	Accelerated Dual Descent for Network Flow Optimization. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 905-920	5.9	52
101	Online optimization in dynamic environments: Improved regret rates for strongly convex problems 2016 ,		51
100	Exponentially fast parameter estimation in networks using distributed dual averaging 2013 ,		44
99	Random Walks on Simplicial Complexes and the Normalized Hodge 1-Laplacian. <i>SIAM Review</i> , 2020 , 62, 353-391	7.4	43
98	. <i>IEEE Transactions on Control of Network Systems</i> , 2014 , 1, 155-166	4	43
97	Dynamic Pricing in Social Networks: The Word-of-Mouth Effect. <i>Management Science</i> , 2018 , 64, 971-979	3.9	42
96	Distributed Detection: Finite-Time Analysis and Impact of Network Topology. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 3256-3268	5.9	39
95	A distributed Newton method for Network Utility Maximization 2010 ,		38
94	A Distributed Newton Method for Network Utility Maximization Part II: Convergence. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 2176-2188	5.9	37
93	Robust non-fragile LQ controllers: The static state feedback case. <i>International Journal of Control</i> , 2000 , 73, 159-165	1.5	34
92	Comparison of nonlinear control design techniques on a model of the Caltech ducted fan. <i>Automatica</i> , 2001 , 37, 1971-1978	5.7	30
91	Coordinated networked estimation strategies using structured systems theory 2011 ,		26
90	A One-Parameter Family of Distributed Consensus Algorithms with Boundary: From Shortest Paths to Mean Hitting Times 2006 ,		25
89	Collaborative scalar-gain estimators for potentially unstable social dynamics with limited communication. <i>Automatica</i> , 2014 , 50, 1909-1914	5.7	23

88	Structural Analysis of Laplacian Spectral Properties of Large-Scale Networks. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 2338-2343	5.9	22
87	Game theoretic analysis of a strategic model of competitive contagion and product adoption in social networks 2012 ,		21
86	Input-to-state stable finite horizon MPC for neutrally stable linear discrete-time systems with input constraints. <i>Systems and Control Letters</i> , 2006 , 55, 293-303	2.4	21
85	Accelerated dual descent for network optimization 2011 ,		20
84	Density Functions for Navigation-Function-Based Systems. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 612-617	5.9	20
83	Evaluation of individual and ensemble probabilistic forecasts of COVID-19 mortality in the US		20
82	On the stability and optimality of distributed Kalman filters with finite-time data fusion 2011 ,		19
81	Spectral analysis of virus spreading in random geometric networks 2009 ,		18
80	Decentralized Computation of Homology Groups in Networks by Gossip. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	18
79	Small world phenomenon, rapidly mixing Markov chains, and average consensus algorithms 2007 ,		18
78	Resilient monotone submodular function maximization 2017 ,		17
77	Distributed coverage verification in sensor networks without location information 2008 ,		17
76	Near-optimal sensor scheduling for batch state estimation: Complexity, algorithms, and limits 2016 ,		17
75	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2013 , 7, 358-369	7.5	16
74	Learning in network games with incomplete information: asymptotic analysis and tractable implementation of rational behavior. <i>IEEE Signal Processing Magazine</i> , 2013 , 30, 30-42	9.4	16
73	Online Control Customization via Optimization-Based Control 2004 , 149-174		16
72	On Recurrence of Graph Connectivity in Vicsek's Model of Motion Coordination for Mobile Autonomous Agents. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	15
71	Distributed Multi-Parametric Quadratic Programming. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 2279-2289	5.9	14

70	Accelerated backpressure algorithm 2013,		13
69	Delay Robustness of Nonlinear Internet Congestion Control Schemes. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1421-1427	5.9	13
68	Evaluation of individual and ensemble probabilistic forecasts of COVID-19 mortality in the United States.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2113561119	11.5	13
67	Approximation methods and spatial interpolation in distributed control systems 2009,		12
66	Blind Community Detection From Low-Rank Excitations of a Graph Filter. <i>IEEE Transactions on Signal Processing</i> , 2020 , 68, 436-451	4.8	12
65	Distributed Newton Method for Large-Scale Consensus Optimization. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 3983-3994	5.9	11
64	(Non-)Bayesian learning without recall 2014,		11
63	2017,		11
62	A distributed line search for network optimization 2012,		11
61	On decentralized optimal control and information structures 2008,		10
60	Spectral Alignment of Graphs. <i>IEEE Transactions on Network Science and Engineering</i> , 2020 , 7, 1182-1197	4.9	10
59	On dual convergence of the distributed Newton method for Network Utility Maximization 2011,		9
58	Necessary and sufficient conditions for consensus over random independent and identically distributed switching graphs 2007,		9
57	Scaling Laws for Consensus Protocols Subject to Noise. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 1389-1402	5.9	8
56	Bayesian Quadratic Network Game Filters. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 2250-2264	4.8	8
55	2015,		7
54	Duopoly pricing game in networks with local coordination effects 2012,		7
53	Distributed topology control of dynamic networks 2008,		7

52	Finite-time analysis of the distributed detection problem 2015 ,		6
51	Targeted marketing and seeding products with positive externality 2012 ,		6
50	Distributed control of the Laplacian spectral moments of a network 2010 ,		6
49	Non-Bayesian Social Learning with Uncertain Models over Time-Varying Directed Graphs 2019 ,		6
48	. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 1468-1483	5.9	6
47	Non-Bayesian Social Learning With Uncertain Models. <i>IEEE Transactions on Signal Processing</i> , 2020 , 68, 4178-4193	4.8	5
46	Learning to Coordinate in Social Networks. <i>Operations Research</i> , 2016 , 64, 605-621	2.3	5
45	A distributed newton method for dynamic Network Utility Maximization with delivery contracts 2012 ,		5
44	Multi-agent flocking with random communication radius 2012 ,		5
43	Network optimization under uncertainty 2012 ,		5
42	Combinatorial bounds and scaling laws for noise amplification in networks 2013 ,		5
41	Network Inference From Consensus Dynamics With Unknown Parameters. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2020 , 6, 300-315	2.8	4
40	Sensing-Constrained LQG Control 2018 ,		4
39	Structured coprime factorizations description of Linear and Time-Invariant networks 2013 ,		4
38	Bayesian Quadratic Network Game filters 2013 ,		4
37	Towards simplicial coverage repair for mobile robot teams 2010 ,		4
36	Variance analysis of randomized consensus in switching directed networks 2010 ,		4
35	On consensus in a correlated model of network formation based on a Polya urn process 2011 ,		4

34	Aggregate observational distinguishability is necessary and sufficient for social learning 2011 ,		4
33	A connectivity preserving containment control strategy for unicycles with static leaders 2012 ,		4
32	On consensus and exponentially fast social learning 2012 ,		4
31	Receding Horizon Control of Spatially Distributed Systems over Arbitrary Graphs 2006 ,		4
30	On Increasing Self-Confidence in Non-Bayesian Social Learning over Time-Varying Directed Graphs 2019 ,		4
29	Bayesian Decision Making in Groups is Hard. <i>Operations Research</i> , 2021 , 69, 632-654	2.3	4
28	Deterministic and Randomized Actuator Scheduling With Guaranteed Performance Bounds. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 1686-1701	5.9	4
27	2018 ,		4
26	Deterministic Polynomial-Time Actuator Scheduling With Guaranteed Performance 2018 ,		4
25	Optimal budget allocation in social networks: Quality or seeding? 2014 ,		3
24	Complexity of Bayesian belief exchange over a network 2017 ,		3
23	From local measurements to network spectral properties: Beyond degree distributions 2010 ,		3
22	Spectral control of mobile robot networks 2011 ,		3
21	Optimal distributed control for platooning via sparse coprime factorizations 2016 ,		2
20	Limitations and Tradeoffs in Minimum Input Selection Problems 2018 ,		2
19	Dynamic games with side information in economic networks 2012 ,		2
18	Path planning for multiple robots: An alternative duality approach 2010 ,		2
17	On asymptotic consensus value in directed random networks 2010 ,		2

16	Learning under social influence 2009 ,		2
15	Consensus over martingale graph processes 2012 ,		2
14	Robust and Adaptive Sequential Submodular Optimization. <i>IEEE Transactions on Automatic Control</i> , 2020 , 1-1	5.9	2
13	Non-Bayesian Social Learning with Gaussian Uncertain Models 2020 ,		2
12	Minimal Reachability is Hard To Approximate. <i>IEEE Transactions on Automatic Control</i> , 2018 , 1-1	5.9	2
11	A separation theorem for joint sensor and actuator scheduling with guaranteed performance bounds. <i>Automatica</i> , 2020 , 119, 109054	5.7	1
10	. <i>IEEE Transactions on Network Science and Engineering</i> , 2020 , 7, 2693-2701	4.9	1
9	Discounted integral priority routing for data networks 2014 ,		1
8	A duality approach to path planning for multiple robots 2010 ,		1
7	A topological view of estimation from noisy relative measurements 2011 ,		1
6	Determining interconnections in biochemical networks using linear programming 2008 ,		1
5	Strategic Information Diffusion. <i>Performance Evaluation Review</i> , 2014 , 42, 20-23	0.4	1
4	The effect of drone strikes on civilian communication: evidence from Yemen. <i>Political Science Research and Methods</i> , 1-9	2.4	1
3	A General Framework for Distributed Inference With Uncertain Models. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2021 , 7, 392-405	2.8	1
2	State of the Journal Editorial. <i>IEEE Transactions on Network Science and Engineering</i> , 2017 , 4, 72-73	4.9	
1	Local Optimality of Almost Piecewise-Linear Quantizers for Witsenhausen's Problem. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 3152-3168	5.9	