

Ali Jadbabaie

List of Publications by Year in Descending Order

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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	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	119
122	Bayesian Decision Making in Groups is Hard. <i>Operations Research</i> , 2021 , 69, 632-654	2.3	4
121	. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 1468-1483	5.9	6
120	Deterministic and Randomized Actuator Scheduling With Guaranteed Performance Bounds. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 1686-1701	5.9	4
119	Local Optimality of Almost Piecewise-Linear Quantizers for Witsenhausen's Problem. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 3152-3168	5.9	
118	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
117	Random Walks on Simplicial Complexes and the Normalized Hodge 1-Laplacian. <i>SIAM Review</i> , 2020 , 62, 353-391	7.4	43
116	A separation theorem for joint sensor and actuator scheduling with guaranteed performance bounds. <i>Automatica</i> , 2020 , 119, 109054	5.7	1
115	. <i>IEEE Transactions on Network Science and Engineering</i> , 2020 , 7, 2693-2701	4.9	1
114	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
113	Non-Bayesian Social Learning With Uncertain Models. <i>IEEE Transactions on Signal Processing</i> , 2020 , 68, 4178-4193	4.8	5
112	Robust and Adaptive Sequential Submodular Optimization. <i>IEEE Transactions on Automatic Control</i> , 2020 , 1-1	5.9	2
111	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
110	Non-Bayesian Social Learning with Gaussian Uncertain Models 2020 ,		2
109	Spectral Alignment of Graphs. <i>IEEE Transactions on Network Science and Engineering</i> , 2020 , 7, 1182-1197	4.9	10
108	Distributed Newton Method for Large-Scale Consensus Optimization. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 3983-3994	5.9	11
107	Scaling Laws for Consensus Protocols Subject to Noise. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 1389-1402	5.9	8

106	On Increasing Self-Confidence in Non-Bayesian Social Learning over Time-Varying Directed Graphs 2019,		4
105	Non-Bayesian Social Learning with Uncertain Models over Time-Varying Directed Graphs 2019,		6
104	A Theory of Non-Bayesian Social Learning. <i>Econometrica</i> , 2018 , 86, 445-490	4.9	54
103	Dynamic Pricing in Social Networks: The Word-of-Mouth Effect. <i>Management Science</i> , 2018 , 64, 971-979	3.9	42
102	Distributed Online Optimization in Dynamic Environments Using Mirror Descent. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 714-725	5.9	80
101	Limitations and Tradeoffs in Minimum Input Selection Problems 2018,		2
100	Sensing-Constrained LQG Control 2018,		4
99	2018,		4
98	Deterministic Polynomial-Time Actuator Scheduling With Guaranteed Performance 2018,		4
97	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
96	Minimal Reachability is Hard To Approximate. <i>IEEE Transactions on Automatic Control</i> , 2018 , 1-1	5.9	2
95	State of the Journal Editorial. <i>IEEE Transactions on Network Science and Engineering</i> , 2017 , 4, 72-73	4.9	
94	2017,		11
93	Resilient monotone submodular function maximization 2017,		17
92	Complexity of Bayesian belief exchange over a network 2017,		3
91	Optimal distributed control for platooning via sparse coprime factorizations 2016,		2
90	Learning to Coordinate in Social Networks. <i>Operations Research</i> , 2016 , 64, 605-621	2.3	5
89	Distributed Detection: Finite-Time Analysis and Impact of Network Topology. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 3256-3268	5.9	39

88	Online optimization in dynamic environments: Improved regret rates for strongly convex problems 2016,		51
87	Near-optimal sensor scheduling for batch state estimation: Complexity, algorithms, and limits 2016,		17
86	Finite-time analysis of the distributed detection problem 2015,		6
85	2015,		7
84	Bayesian Quadratic Network Game Filters. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 2250-2264	4.8	8
83	Accelerated Dual Descent for Network Flow Optimization. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 905-920	5.9	52
82	Collaborative scalar-gain estimators for potentially unstable social dynamics with limited communication. <i>Automatica</i> , 2014 , 50, 1909-1914	5.7	23
81	Optimal Resource Allocation for Network Protection Against Spreading Processes. <i>IEEE Transactions on Control of Network Systems</i> , 2014 , 1, 99-108	4	145
80	. <i>IEEE Transactions on Control of Network Systems</i> , 2014 , 1, 155-166	4	43
79	Optimal budget allocation in social networks: Quality or seeding? 2014,		3
78	(Non-)Bayesian learning without recall 2014,		11
77	Discounted integral priority routing for data networks 2014,		1
76	Strategic Information Diffusion. <i>Performance Evaluation Review</i> , 2014 , 42, 20-23	0.4	1
75	A Distributed Newton Method for Network Utility Maximization I Algorithm. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 2162-2175	5.9	113
74	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
73	Structural Analysis of Laplacian Spectral Properties of Large-Scale Networks. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 2338-2343	5.9	22
72	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2013 , 7, 358-369	7.5	16
71	Optimal vaccine allocation to control epidemic outbreaks in arbitrary networks 2013,		74

70	Accelerated backpressure algorithm 2013 ,		13
69	Structured coprime factorizations description of Linear and Time-Invariant networks 2013 ,		4
68	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
67	Exponentially fast parameter estimation in networks using distributed dual averaging 2013 ,		44
66	Bayesian Quadratic Network Game filters 2013 ,		4
65	Combinatorial bounds and scaling laws for noise amplification in networks 2013 ,		5
64	Targeted marketing and seeding products with positive externality 2012 ,		6
63	Dynamic games with side information in economic networks 2012 ,		2
62	Non-Bayesian social learning. <i>Games and Economic Behavior</i> , 2012 , 76, 210-225	1.1	233
61	Consensus over martingale graph processes 2012 ,		2
60	A distributed newton method for dynamic Network Utility Maximization with delivery contracts 2012 ,		5
59	Multi-agent flocking with random communication radius 2012 ,		5
58	A connectivity preserving containment control strategy for unicycles with static leaders 2012 ,		4
57	Game theoretic analysis of a strategic model of competitive contagion and product adoption in social networks 2012 ,		21
56	On consensus and exponentially fast social learning 2012 ,		4
55	A distributed line search for network optimization 2012 ,		11
54	Network optimization under uncertainty 2012 ,		5
53	Duopoly pricing game in networks with local coordination effects 2012 ,		7

52	On dual convergence of the distributed Newton method for Network Utility Maximization 2011 ,	9
51	A topological view of estimation from noisy relative measurements 2011 ,	1
50	Spectral control of mobile robot networks 2011 ,	3
49	Accelerated dual descent for network optimization 2011 ,	20
48	On consensus in a correlated model of network formation based on a Polya urn process 2011 ,	4
47	On the stability and optimality of distributed Kalman filters with finite-time data fusion 2011 ,	19
46	Aggregate observational distinguishability is necessary and sufficient for social learning 2011 ,	4
45	Coordinated networked estimation strategies using structured systems theory 2011 ,	26
44	A distributed Newton method for Network Utility Maximization 2010 ,	38
43	On connectivity, observability, and stability in distributed estimation 2010 ,	54
42	Towards simplicial coverage repair for mobile robot teams 2010 ,	4
41	Variance analysis of randomized consensus in switching directed networks 2010 ,	4
40	Path planning for multiple robots: An alternative duality approach 2010 ,	2
39	Distributed control of the Laplacian spectral moments of a network 2010 ,	6
38	A duality approach to path planning for multiple robots 2010 ,	1
37	On asymptotic consensus value in directed random networks 2010 ,	2
36	From local measurements to network spectral properties: Beyond degree distributions 2010 ,	3
35	Effects of Delay in Multi-Agent Consensus and Oscillator Synchronization. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1471-1477	5.9 129

34	Delay Robustness of Nonlinear Internet Congestion Control Schemes. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1421-1427	5.9	13
33	Distributed Coverage Verification in Sensor Networks Without Location Information. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1837-1849	5.9	64
32	Consensus Over Ergodic Stationary Graph Processes. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 225-230	5.9	143
31	Approximation methods and spatial interpolation in distributed control systems 2009 ,		12
30	Distributed Multi-Parametric Quadratic Programming. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 2279-2289	5.9	14
29	Learning under social influence 2009 ,		2
28	Spectral analysis of virus spreading in random geometric networks 2009 ,		18
27	Hybrid Control for Connectivity Preserving Flocking. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 2869-2875	5.9	145
26	Vision-Based, Distributed Control Laws for Motion Coordination of Nonholonomic Robots. <i>IEEE Transactions on Robotics</i> , 2009 , 25, 851-860	6.5	139
25	A Necessary and Sufficient Condition for Consensus Over Random Networks. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 791-795	5.9	302
24	Determining interconnections in biochemical networks using linear programming 2008 ,		1
23	Distributed topology control of dynamic networks 2008 ,		7
22	Density Functions for Navigation-Function-Based Systems. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 612-617	5.9	20
21	Optimal Control of Spatially Distributed Systems. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 1616-1629	5.9	101
20	Distributed coverage verification in sensor networks without location information 2008 ,		17
19	On decentralized optimal control and information structures 2008 ,		10
18	Approximation of the joint spectral radius using sum of squares. <i>Linear Algebra and Its Applications</i> , 2008 , 428, 2385-2402	0.9	85
17	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

16	Decentralized Computation of Homology Groups in Networks by Gossip. <i>Proceedings of the American Control Conference, 2007,</i>	1.2	18
15	Necessary and sufficient conditions for consensus over random independent and identically distributed switching graphs 2007,		9
14	On Recurrence of Graph Connectivity in Vicsek's Model of Motion Coordination for Mobile Autonomous Agents. <i>Proceedings of the American Control Conference, 2007,</i>	1.2	15
13	Small world phenomenon, rapidly mixing Markov chains, and average consensus algorithms 2007,		18
12	Distributed Geodesic Control Laws for Flocking of Nonholonomic Agents. <i>IEEE Transactions on Automatic Control, 2007, 52, 681-686</i>	5.9	105
11	Flocking while preserving network connectivity 2007,		108
10	Flocking in Fixed and Switching Networks. <i>IEEE Transactions on Automatic Control, 2007, 52, 863-868</i>	5.9	956
9	A One-Parameter Family of Distributed Consensus Algorithms with Boundary: From Shortest Paths to Mean Hitting Times 2006,		25
8	Receding Horizon Control of Spatially Distributed Systems over Arbitrary Graphs 2006,		4
7	Decentralized Control of Connectivity for Multi-Agent Systems 2006,		152
6	Input-to-state stable finite horizon MPC for neutrally stable linear discrete-time systems with input constraints. <i>Systems and Control Letters, 2006, 55, 293-303</i>	2.4	21
5	Online Control Customization via Optimization-Based Control 2004, 149-174		16
4	Comparison of nonlinear control design techniques on a model of the Caltech ducted fan. <i>Automatica, 2001, 37, 1971-1978</i>	5.7	30
3	Robust non-fragile LQ controllers: The static state feedback case. <i>International Journal of Control, 2000, 73, 159-165</i>	1.5	34
2	Evaluation of individual and ensemble probabilistic forecasts of COVID-19 mortality in the US		20
1	The effect of drone strikes on civilian communication: evidence from Yemen. <i>Political Science Research and Methods, 1-9</i>	2.4	1