

Angelia Nedich

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.

161
papers

8,605
citations

37
h-index

91
g-index

186
ext. papers

10,895
ext. citations

3.8
avg, IF

6.99
L-index

#	Paper	IF	Citations
161	Distributed Subgradient Methods for Multi-Agent Optimization. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 48-61	5.9	1679
160	Constrained Consensus and Optimization in Multi-Agent Networks. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 922-938	5.9	1057
159	Distributed Optimization Over Time-Varying Directed Graphs. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 601-615	5.9	470
158	Distributed Stochastic Subgradient Projection Algorithms for Convex Optimization. <i>Journal of Optimization Theory and Applications</i> , 2010 , 147, 516-545	1.6	378
157	Incremental Subgradient Methods for Nondifferentiable Optimization. <i>SIAM Journal on Optimization</i> , 2001 , 12, 109-138	2	367
156	On Distributed Averaging Algorithms and Quantization Effects. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 2506-2517	5.9	316
155	Achieving Geometric Convergence for Distributed Optimization Over Time-Varying Graphs. <i>SIAM Journal on Optimization</i> , 2017 , 27, 2597-2633	2	308
154	Distributed Constrained Optimization by Consensus-Based Primal-Dual Perturbation Method. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 1524-1538	5.9	221
153	Distributed Asynchronous Constrained Stochastic Optimization. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2011 , 5, 772-790	7.5	203
152	Subgradient Methods for Saddle-Point Problems. <i>Journal of Optimization Theory and Applications</i> , 2009 , 142, 205-228	1.6	196
151	Approximate Primal Solutions and Rate Analysis for Dual Subgradient Methods. <i>SIAM Journal on Optimization</i> , 2009 , 19, 1757-1780	2	189
150	Asynchronous Broadcast-Based Convex Optimization Over a Network. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 1337-1351	5.9	166
149	Incremental Stochastic Subgradient Algorithms for Convex Optimization. <i>SIAM Journal on Optimization</i> , 2009 , 20, 691-717	2	147
148	Distributed Algorithms for Aggregative Games on Graphs. <i>Operations Research</i> , 2016 , 64, 680-704	2.3	130
147	Distributed Random Projection Algorithm for Convex Optimization. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2013 , 7, 221-229	7.5	111
146	. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 3936-3947	5.9	108
145	. <i>Proceedings of the IEEE</i> , 2018 , 106, 953-976	14.3	106

144	An $\mathcal{O}(1/k)$ Gradient Method for Network Resource Allocation Problems. <i>IEEE Transactions on Control of Network Systems</i> , 2014 , 1, 64-73	4	106
143	Convergence rate for consensus with delays. <i>Journal of Global Optimization</i> , 2010 , 47, 437-456	1.5	100
142	Multuser Optimization: Distributed Algorithms and Error Analysis. <i>SIAM Journal on Optimization</i> , 2011 , 21, 1046-1081	2	90
141	Least Squares Policy Evaluation Algorithms with Linear Function Approximation. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2003 , 13, 79-110	1	81
140	Regularized Iterative Stochastic Approximation Methods for Stochastic Variational Inequality Problems. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 594-609	5.9	74
139	On Ergodicity, Infinite Flow, and Consensus in Random Models. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 1593-1605	5.9	74
138	Fast Convergence Rates for Distributed Non-Bayesian Learning. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 5538-5553	5.9	66
137	Distributed subgradient methods and quantization effects 2008 ,		65
136	On stochastic gradient and subgradient methods with adaptive steplength sequences. <i>Automatica</i> , 2012 , 48, 56-67	5.7	62
135	Distributed Optimization for Control. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , 2018 , 1, 77-103	11.8	58
134	Product of Random Stochastic Matrices. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 437-448	5.9	56
133	Random algorithms for convex minimization problems. <i>Mathematical Programming</i> , 2011 , 129, 225-253	2.1	53
132	. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 1322-1334	4	51
131	A Push-Pull Gradient Method for Distributed Optimization in Networks 2018 ,		49
130	Distributed and Recursive Parameter Estimation in Parametrized Linear State-Space Models. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 488-492	5.9	48
129	On Stochastic Subgradient Mirror-Descent Algorithm with Weighted Averaging. <i>SIAM Journal on Optimization</i> , 2014 , 24, 84-107	2	42
128	Geometrically convergent distributed optimization with uncoordinated step-sizes 2017 ,		41
127	PushPull Gradient Methods for Distributed Optimization in Networks. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 1-16	5.9	40

126	On Convergence Rate of Weighted-Averaging Dynamics for Consensus Problems. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 766-781	5.9	39
125	A gossip algorithm for aggregative games on graphs 2012 ,		38
124	Asynchronous Gossip-Based Random Projection Algorithms Over Networks. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 953-968	5.9	36
123	Convergence Rate of Distributed Averaging Dynamics and Optimization in Networks. <i>Foundations and Trends in Systems and Control</i> , 2015 , 2, 1-100	4	36
122	Cooperative distributed multi-agent optimization 340-386		36
121	. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 4891-4906	5.9	34
120	The effect of deterministic noise in subgradient methods. <i>Mathematical Programming</i> , 2010 , 125, 75-99	2.1	34
119	On backward product of stochastic matrices. <i>Automatica</i> , 2012 , 48, 1477-1488	5.7	31
118	On the rate of convergence of distributed subgradient methods for multi-agent optimization 2007 ,		29
117	Stochastic Dual Averaging for Decentralized Online Optimization on Time-Varying Communication Graphs. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 6407-6414	5.9	27
116	Distributed optimization over time-varying directed graphs 2013 ,		26
115	On Approximations and Ergodicity Classes in Random Chains. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 2718-2730	5.9	26
114	Exponential convergence of a distributed algorithm for solving linear algebraic equations. <i>Automatica</i> , 2017 , 83, 37-46	5.7	26
113	On smoothing, regularization, and averaging in stochastic approximation methods for stochastic variational inequality problems. <i>Mathematical Programming</i> , 2017 , 165, 391-431	2.1	25
112	Self-Tuned Stochastic Approximation Schemes for Non-Lipschitzian Stochastic Multi-User Optimization and Nash Games. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1753-1766	5.9	24
111	On distributed averaging algorithms and quantization effects 2008 ,		23
110	2008 ,		23
109	Internal stability of linear consensus processes 2014 ,		22

108	Distributed stochastic gradient tracking methods. <i>Mathematical Programming</i> , 2021 , 187, 409-457	2.1	22
107	A Distributed Stochastic Gradient Tracking Method 2018 ,		22
106	Dynamic Coalitional TU Games: Distributed Bargaining Among PlayersSNeighbors. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 1363-1376	5.9	21
105	Distributed Generalized Nash Equilibrium Seeking in Aggregative Games on Time-Varying Networks. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 2061-2075	5.9	21
104	Distributed Gradient Methods for Convex Machine Learning Problems in Networks: Distributed Optimization. <i>IEEE Signal Processing Magazine</i> , 2020 , 37, 92-101	9.4	20
103	Asynchronous Gossip Algorithm for Stochastic Optimization: Constant Stepsize Analysis* 2010 , 51-60		20
102	Asynchronous Multiagent Primal-Dual Optimization. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 4421-4435	5.9	19
101	On Projected Stochastic Gradient Descent Algorithm with Weighted Averaging for Least Squares Regression. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 5974-5981	5.9	18
100	Distributed Learning Algorithms for Spectrum Sharing in Spatial Random Access Wireless Networks. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 2854-2869	5.9	18
99	A geometric framework for nonconvex optimization duality using augmented lagrangian functions. <i>Journal of Global Optimization</i> , 2008 , 40, 545-573	1.5	18
98	A dual approach for optimal algorithms in distributed optimization over networks. <i>Optimization Methods and Software</i> , 2021 , 36, 171-210	1.3	18
97	Distributed Computation of Wasserstein Barycenters Over Networks 2018 ,		18
96	Nonasymptotic convergence rates for cooperative learning over time-varying directed graphs 2015 ,		17
95	A regularized smoothing stochastic approximation (RSSA) algorithm for stochastic variational inequality problems 2013 ,		16
94	Subgradient methods in network resource allocation: Rate analysis 2008 ,		16
93	Multi-competitive viruses over static and time-varying networks 2017 ,		15
92	Coordinate Dual Averaging for Decentralized Online Optimization With Nonseparable Global Objectives. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 34-44	4	14
91	2018 ,		14

90	When infinite flow is sufficient for ergodicity 2010 ,		13
89	On existence of a quadratic comparison function for random weighted averaging dynamics and its implications 2011 ,		13
88	On the analysis of a continuous-time bi-virus model 2016 ,		13
87	Accelerated Gradient Play Algorithm for Distributed Nash Equilibrium Seeking 2018 ,		13
86	On Stochastic Mirror-prox Algorithms for Stochastic Cartesian Variational Inequalities: Randomized Block Coordinate and Optimal Averaging Schemes. <i>Set-Valued and Variational Analysis</i> , 2018 , 26, 789-819		12
85	Stability analysis and control of virus spread over time-varying networks 2015 ,		12
84	Distributed constrained optimization over noisy networks 2010 ,		12
83	Rate of Convergence for Consensus with Delays 2008 ,		12
82	Distributed Bregman-Distance Algorithms for Min-Max Optimization. <i>Studies in Computational Intelligence</i> , 2013 , 143-174	0.8	11
81	Optimal robust smoothing extragradient algorithms for stochastic variational inequality problems 2014 ,		11
80	Termination time of multidimensional Hegselmann-Krause opinion dynamics 2013 ,		11
79	Single timescale regularized stochastic approximation schemes for monotone Nash games under uncertainty 2010 ,		11
78	A Dual Approach for Optimal Algorithms in Distributed Optimization over Networks 2020 ,		10
77	A continuous-time distributed algorithm for solving linear equations 2016 ,		9
76	On a continuous-time multi-group bi-virus model with human awareness 2017 ,		9
75	Distributed min-max optimization in networks 2011 ,		9
74	Graph-Theoretic Analysis of Belief System Dynamics under Logic Constraints. <i>Scientific Reports</i> , 2019 , 9, 8843	4.9	8
73	Cloud-based centralized/decentralized multi-agent optimization with communication delays 2015 ,		8

72	Hybrid Noncoherent Network Coding. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 3317-3331	2.8	8
71	Multi-Layer Decomposition of Network Utility Maximization Problems. <i>IEEE/ACM Transactions on Networking</i> , 2020 , 28, 2077-2091	3.8	8
70	Adaptive Sequential Stochastic Optimization. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 496-509	5.9	8
69	Influence of Conformist and Manipulative Behaviors on Public Opinion. <i>IEEE Transactions on Control of Network Systems</i> , 2019 , 6, 202-214	4	8
68	Complex constrained consensus 2014 ,		7
67	Stability of a distributed algorithm for solving linear algebraic equations 2014 ,		7
66	Alternative characterization of ergodicity for doubly stochastic chains 2011 ,		7
65	A General Framework for Decentralized Optimization With First-Order Methods		7
64	Optimal Distributed Convex Optimization on Slowly Time-Varying Graphs. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 7, 829-841	4	7
63	Decentralized online optimization with global objectives and local communication 2015 ,		6
62	2016 ,		6
61	Multi-competitive viruses over time-varying networks with mutations and human awareness. <i>Automatica</i> , 2021 , 123, 109330	5.7	6
60	A Case of Distributed Optimization in Adversarial Environment 2019 ,		5
59	Random Block-Coordinate Gradient Projection Algorithms 2014 ,		5
58	Distributed learning algorithms for spectrum sharing in spatial random access networks 2015 ,		5
57	A distributed adaptive steplength stochastic approximation method for monotone stochastic Nash Games 2013 ,		5
56	DrSVM: Distributed random projection algorithms for SVMs 2012 ,		5
55	Separation of Nonconvex Sets with General Augmenting Functions. <i>Mathematics of Operations Research</i> , 2008 , 33, 587-605	1.5	5

54	Geometric Convergence of Gradient Play Algorithms for Distributed Nash Equilibrium Seeking. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 5342-5353	5.9	5
53	Decentralized Consensus Optimization and Resource Allocation. <i>Lecture Notes in Mathematics</i> , 2018 , 247-287	0.4	5
52	SUCAG: Stochastic Unbiased Curvature-aided Gradient Method for Distributed Optimization 2018 ,		5
51	Random Minibatch Subgradient Algorithms for Convex Problems with Functional Constraints. <i>Applied Mathematics and Optimization</i> , 2019 , 80, 801-833	1.5	4
50	Distributed optimization of strongly convex functions on directed time-varying graphs 2013 ,		4
49	Curvature-aided incremental aggregated gradient method 2017 ,		4
48	Distributed sparse regression by consensus-based primal-dual perturbation optimization 2013 ,		4
47	Distributed Gaussian learning over time-varying directed graphs 2016 ,		4
46	Stochastic quasi-Newton methods for non-strongly convex problems: Convergence and rate analysis 2016 ,		4
45	Distributed Optimization Over Networks. <i>Lecture Notes in Mathematics</i> , 2018 , 1-84	0.4	4
44	Accelerating incremental gradient optimization with curvature information. <i>Computational Optimization and Applications</i> , 2020 , 76, 347-380	1.4	3
43	A distributed algorithm for computing a common fixed point of a family of strongly quasi-nonexpansive maps 2017 ,		3
42	Evolution of Public Opinion under Conformist and Manipulative Behaviors. <i>IFAC-PapersOnLine</i> , 2017 , 50, 14344-14349	0.7	3
41	A Lyapunov approach to discrete-time linear consensus 2014 ,		3
40	Distributed multiuser optimization: Algorithms and error analysis 2009 ,		3
39	Non-asymptotic Concentration Rates in Cooperative Learning Part I: Variational Non-Bayesian Social Learning. <i>IEEE Transactions on Control of Network Systems</i> , 2022 , 1-1	4	3
38	Conformity versus manipulation in reputation systems 2016 ,		3
37	Detection of Data Injection Attacks on Decentralized Statistical Estimation 2018 ,		3

36	Discrete-Time Polar Opinion Dynamics with Heterogeneous Individuals 2018,		3
35	Multi-layer Decomposition of Optimal Resource Sharing Problems 2018,		3
34	2016,		2
33	Dynamic stochastic optimization 2014,		2
32	Single timescale stochastic approximation for stochastic Nash games in cognitive radio systems 2011,		2
31	2011,		2
30	Constrained consensus for bargaining in dynamic coalitional TU games 2011,		2
29	A tutorial on distributed (non-Bayesian) learning: Problem, algorithms and results 2016,		2
28	Input-output stability of linear consensus processes 2016,		2
27	On projected stochastic gradient descent algorithm with weighted averaging for least squares regression 2016,		2
26	On Stochastic and Deterministic Quasi-Newton Methods for Nonstrongly Convex Optimization: Asymptotic Convergence and Rate Analysis. <i>SIAM Journal on Optimization</i> , 2020 , 30, 1144-1172	2	2
25	2018,		2
24	Online Discrete Optimization in Social Networks in the Presence of Knightian Uncertainty. <i>Operations Research</i> , 2016 , 64, 662-679	2,3	1
23	LP-relaxation based distributed algorithms for scheduling in wireless networks 2014,		1
22	On stochastic proximal-point method for convex-composite optimization 2017,		1
21	2017,		1
20	A fully distributed dual gradient method with linear convergence for large-scale separable convex problems 2015,		1
19	On averaging dynamics in general state spaces 2012,		1

18	Distributed mini-batch random projection algorithms for reduced communication overhead 2013 ,		1
17	A general framework for distributed vote aggregation 2013 ,		1
16	Approximation and limiting behavior of random models 2010 ,		1
15	Convergence properties of normalized random incremental gradient algorithms for least-squares source localization 2012 ,		1
14	Farsighted sensor management for feature-aided tracking 2006 , 6235, 130		1
13	Non-asymptotic Concentration Rates in Cooperative Learning Part II: Inference on Compact Hypothesis Sets. <i>IEEE Transactions on Control of Network Systems</i> , 2022 , 1-1	4	1
12	Geometric convergence of distributed gradient play in games with unconstrained action sets. <i>IFAC-PapersOnLine</i> , 2020 , 53, 3367-3372	0.7	1
11	Complexity Certifications of First-Order Inexact Lagrangian Methods for General Convex Programming: Application to Real-Time MPC. <i>Lecture Notes in Control and Information Sciences</i> , 2015 , 3-26	0.5	1
10	Generalization of accelerated successive projection method for convex sets intersection problems 2016 ,		1
9	Distributed generalized Nash equilibrium seeking in aggregative games under partial-decision information via dynamic tracking 2019 ,		1
8	Data Clustering and Graph Partitioning via Simulated Mixing. <i>IEEE Transactions on Network Science and Engineering</i> , 2019 , 6, 253-266	4.9	1
7	. <i>IEEE Transactions on Robotics</i> , 2021 , 1-21	6.5	1
6	Multi-agent Optimization. <i>Lecture Notes in Mathematics</i> , 2018 ,	0.4	1
5	A Distributed Augmented Lagrangian Method Over Stochastic Networks for Economic Dispatch of Large-Scale Energy Systems. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 12, 1927-1934	8.2	1
4	Group Testing Game. <i>IFAC-PapersOnLine</i> , 2017 , 50, 9668-9673	0.7	0
3	Distributed Augmented Lagrangian Method for Link-Based Resource Sharing Problems of Multi-Agent Systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	0
2	Minibatch stochastic subgradient-based projection algorithms for feasibility problems with convex inequalities. <i>Computational Optimization and Applications</i> , 2021 , 80, 121-152	1.4	
1	A Smooth Inexact Penalty Reformulation of Convex Problems with Linear Constraints. <i>SIAM Journal on Optimization</i> , 2021 , 31, 2141-2170	2	

