

Gesualdo Scutari

List of Publications by Year in descending order

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61
papers

3,860
citations

186265

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223800

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docs citations

61
times ranked

2167
citing authors

#	ARTICLE	IF	CITATIONS
1	Diminishing stepsize methods for nonconvex composite problems via ghost penalties: from the general to the convex regular constrained case. <i>Optimization Methods and Software</i> , 2022, 37, 1242-1268.	2.4	2
2	Kernel Regression Imputation in Manifolds Via Bi-Linear Modeling: The Dynamic-MRI Case. <i>IEEE Transactions on Computational Imaging</i> , 2022, 8, 133-147.	4.4	1
3	Distributed Optimization Based on Gradient Tracking Revisited: Enhancing Convergence Rate via Surrogation. <i>SIAM Journal on Optimization</i> , 2022, 32, 354-385.	2.0	20
4	Finite-Bit Quantization for Distributed Algorithms With Linear Convergence. <i>IEEE Transactions on Information Theory</i> , 2022, 68, 7254-7280.	2.4	7
5	Asynchronous Optimization Over Graphs: Linear Convergence Under Error Bound Conditions. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 4604-4619.	5.7	11
6	Finite Rate Distributed Weight-Balancing and Average Consensus Over Digraphs. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 4530-4545.	5.7	5
7	Distributed Big-Data Optimization via Blockwise Gradient Tracking. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 2045-2060.	5.7	12
8	Distributed Algorithms for Composite Optimization: Unified Framework and Convergence Analysis. <i>IEEE Transactions on Signal Processing</i> , 2021, 69, 3555-3570.	5.3	27
9	Ghost Penalties in Nonconvex Constrained Optimization: Diminishing Stepsizes and Iteration Complexity. <i>Mathematics of Operations Research</i> , 2021, 46, 595-627.	1.3	8
10	Kernel Bi-Linear Modeling for Reconstructing Data on Manifolds: The Dynamic-MRI Case. , 2021, , .		1
11	Iteration Complexity of a Fixed-Stepsize SQP Method for Nonconvex Optimization with Convex Constraints. <i>Springer Proceedings in Mathematics and Statistics</i> , 2021, , 109-120.	0.2	4
12	An Accelerated Second-Order Method for Distributed Stochastic Optimization. , 2021, , .		7
13	Asynchronous parallel algorithms for nonconvex optimization. <i>Mathematical Programming</i> , 2020, 184, 121-154.	2.4	16
14	Bi-Linear Modeling of Data Manifolds for Dynamic-MRI Recovery. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 688-702.	8.9	17
15	Second-Order Guarantees of Distributed Gradient Algorithms. <i>SIAM Journal on Optimization</i> , 2020, 30, 3029-3068.	2.0	23
16	Nonconvex Optimization for Signal Processing and Machine Learning [From the Guest Editors]. <i>IEEE Signal Processing Magazine</i> , 2020, 37, 15-17.	5.6	4
17	Achieving Linear Convergence in Distributed Asynchronous Multiagent Optimization. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 5264-5279.	5.7	38
18	A Unified Algorithmic Framework for Distributed Composite Optimization. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
19	Distributed nonconvex constrained optimization over time-varying digraphs. <i>Mathematical Programming</i> , 2019, 176, 497-544.	2.4	81
20	A Unified Contraction Analysis of a Class of Distributed Algorithms for Composite Optimization. , 2019, , .		2
21	Distributed Quantized Weight-Balancing and Average Consensus Over Digraphs. , 2018, , .		4
22	Finite Rate Quantized Distributed optimization with Geometric Convergence. , 2018, , .		16
23	Parallel and Distributed Successive Convex Approximation Methods for Big-Data Optimization. <i>Lecture Notes in Mathematics</i> , 2018, , 141-308.	0.2	31
24	Parallel and Distributed Methods for Constrained Nonconvex Optimization-Part II: Applications in Communications and Machine Learning. <i>IEEE Transactions on Signal Processing</i> , 2017, 65, 1945-1960.	5.3	57
25	Parallel and Distributed Methods for Constrained Nonconvex Optimizationâ€™Part I: Theory. <i>IEEE Transactions on Signal Processing</i> , 2017, 65, 1929-1944.	5.3	187
26	Distributed nonconvex optimization for sparse representation. , 2017, , .		8
27	Large-scale nonconvex stochastic optimization by Doubly Stochastic Successive Convex approximation. , 2017, , .		5
28	Feasible methods for nonconvex nonsmooth problems with applications in green communications. <i>Mathematical Programming</i> , 2017, 164, 55-90.	2.4	20
29	Distributed big-data optimization via block communications. , 2017, , .		5
30	Distributed big-data optimization via block-iterative convexification and averaging. , 2017, , .		12
31	Topology-agnostic average consensus in sensor networks with limited data rate. , 2017, , .		5
32	Distributed nonconvex multiagent optimization over time-varying networks. , 2016, , .		48
33	Parallel asynchronous lock-free algorithms for nonconvex big-data optimization. , 2016, , .		4
34	Distributed nonconvex optimization over time-varying networks. , 2016, , .		14
35	NEXT: In-Network Nonconvex Optimization. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2016, 2, 120-136.	2.8	273
36	A Parallel Decomposition Method for Nonconvex Stochastic Multi-Agent Optimization Problems. <i>IEEE Transactions on Signal Processing</i> , 2016, 64, 2949-2964.	5.3	67

#	ARTICLE	IF	CITATIONS
37	Hybrid Random/Deterministic Parallel Algorithms for Convex and Nonconvex Big Data Optimization. IEEE Transactions on Signal Processing, 2015, 63, 3914-3929.	5.3	55
38	Distributed nonconvex optimization over networks. , 2015, , .		30
39	Parallel Selective Algorithms for Nonconvex Big Data Optimization. IEEE Transactions on Signal Processing, 2015, 63, 1874-1889.	5.3	132
40	Non-cooperative games with minmax objectives. Computational Optimization and Applications, 2014, 59, 85-112.	1.6	8
41	Decomposition by Partial Linearization: Parallel Optimization of Multi-Agent Systems. IEEE Transactions on Signal Processing, 2014, 62, 641-656.	5.3	223
42	Noncooperative Day-Ahead Bidding Strategies for Demand-Side Expected Cost Minimization With Real-Time Adjustments: A GNEP Approach. IEEE Transactions on Signal Processing, 2014, 62, 2397-2412.	5.3	52
43	Real and Complex Monotone Communication Games. IEEE Transactions on Information Theory, 2014, 60, 4197-4231.	2.4	141
44	VI-constrained hemivariational inequalities: distributed algorithms and power control in ad-hoc networks. Mathematical Programming, 2014, 145, 59-96.	2.4	33
45	Multi-Portfolio Optimization: A Potential Game Approach. IEEE Transactions on Signal Processing, 2013, 61, 5590-5602.	5.3	21
46	Robust MIMO Cognitive Radio Systems Under Interference Temperature Constraints. IEEE Journal on Selected Areas in Communications, 2013, 31, 2465-2482.	14.0	41
47	Noncooperative and Cooperative Optimization of Distributed Energy Generation and Storage in the Demand-Side of the Smart Grid. IEEE Transactions on Signal Processing, 2013, 61, 2454-2472.	5.3	142
48	Joint Sensing and Power Allocation in Nonconvex Cognitive Radio Games: Quasi-Nash Equilibria. IEEE Transactions on Signal Processing, 2013, 61, 2366-2382.	5.3	32
49	Nonconvex Games with Side Constraints. SIAM Journal on Optimization, 2011, 21, 1491-1522.	2.0	46
50	Design of Cognitive Radio Systems Under Temperature-Interference Constraints: A Variational Inequality Approach. IEEE Transactions on Signal Processing, 2010, 58, 3251-3271.	5.3	194
51	Convex Optimization, Game Theory, and Variational Inequality Theory. IEEE Signal Processing Magazine, 2010, 27, 35-49.	5.6	256
52	Flexible design of cognitive radio wireless systems. IEEE Signal Processing Magazine, 2009, 26, 107-123.	5.6	56
53	Asynchronous Iterative Water-Filling for Gaussian Frequency-Selective Interference Channels. IEEE Transactions on Information Theory, 2008, 54, 2868-2878.	2.4	171
54	Distributed Power Allocation With Rate Constraints in Gaussian Parallel Interference Channels. IEEE Transactions on Information Theory, 2008, 54, 3471-3489.	2.4	158

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55	Cognitive MIMO radio. IEEE Signal Processing Magazine, 2008, 25, 46-59.	5.6	176
56	Optimal Linear Precoding Strategies for Wideband Noncooperative Systems Based on Game Theoryâ€™Part I: Nash Equilibria. IEEE Transactions on Signal Processing, 2008, 56, 1230-1249.	5.3	253
57	Optimal Linear Precoding Strategies for Wideband Non-Cooperative Systems Based on Game Theoryâ€™Part II: Algorithms. IEEE Transactions on Signal Processing, 2008, 56, 1250-1267.	5.3	159
58	Distributed Decision Through Self-Synchronizing Sensor Networks in the Presence of Propagation Delays and Asymmetric Channels. IEEE Transactions on Signal Processing, 2008, 56, 1667-1684.	5.3	83
59	Competitive Design of Multiuser MIMO Systems Based on Game Theory: A Unified View. IEEE Journal on Selected Areas in Communications, 2008, 26, 1089-1103.	14.0	212
60	Distributed Consensus Over Wireless Sensor Networks Affected by Multipath Fading. IEEE Transactions on Signal Processing, 2008, 56, 4100-4106.	5.3	23
61	Decentralized Maximum-Likelihood Estimation for Sensor Networks Composed of Nonlinearly Coupled Dynamical Systems. IEEE Transactions on Signal Processing, 2007, 55, 3456-3470.	5.3	118