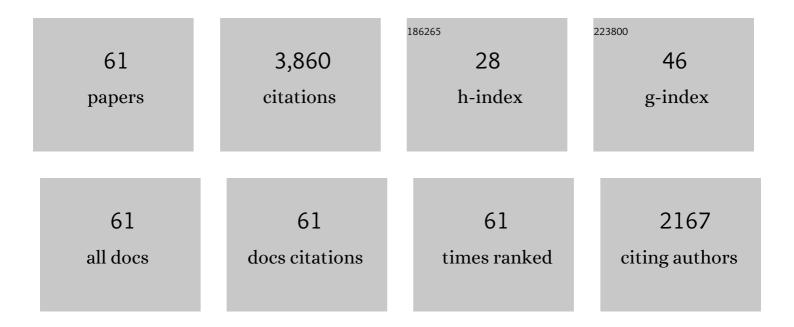
## Gesualdo Scutari

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5484323/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	NEXT: In-Network Nonconvex Optimization. IEEE Transactions on Signal and Information Processing Over Networks, 2016, 2, 120-136.	2.8	273
2	Convex Optimization, Game Theory, and Variational Inequality Theory. IEEE Signal Processing Magazine, 2010, 27, 35-49.	5.6	256
3	Optimal Linear Precoding Strategies for Wideband Noncooperative Systems Based on Game Theory—Part I: Nash Equilibria. IEEE Transactions on Signal Processing, 2008, 56, 1230-1249.	5.3	253
4	Decomposition by Partial Linearization: Parallel Optimization of Multi-Agent Systems. IEEE Transactions on Signal Processing, 2014, 62, 641-656.	5.3	223
5	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
6	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
7	Parallel and Distributed Methods for Constrained Nonconvex Optimization—Part I: Theory. IEEE Transactions on Signal Processing, 2017, 65, 1929-1944.	5.3	187
8	Cognitive MIMO radio. IEEE Signal Processing Magazine, 2008, 25, 46-59.	5.6	176
9	Asynchronous Iterative Water-Filling for Gaussian Frequency-Selective Interference Channels. IEEE Transactions on Information Theory, 2008, 54, 2868-2878.	2.4	171
10	Optimal Linear Precoding Strategies for Wideband Non-Cooperative Systems Based on Game Theory—Part II: Algorithms. IEEE Transactions on Signal Processing, 2008, 56, 1250-1267.	5.3	159
11	Distributed Power Allocation With Rate Constraints in Gaussian Parallel Interference Channels. IEEE Transactions on Information Theory, 2008, 54, 3471-3489.	2.4	158
12	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
13	Real and Complex Monotone Communication Games. IEEE Transactions on Information Theory, 2014, 60, 4197-4231.	2.4	141
14	Parallel Selective Algorithms for Nonconvex Big Data Optimization. IEEE Transactions on Signal Processing, 2015, 63, 1874-1889.	5.3	132
15	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
16	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
17	Distributed nonconvex constrained optimization over time-varying digraphs. Mathematical Programming, 2019, 176, 497-544.	2.4	81
18	A Parallel Decomposition Method for Nonconvex Stochastic Multi-Agent Optimization Problems. IEEE Transactions on Signal Processing, 2016, 64, 2949-2964.	5.3	67

GESUALDO SCUTARI

#	Article	IF	CITATIONS
19	Parallel and Distributed Methods for Constrained Nonconvex Optimization-Part II: Applications in Communications and Machine Learning. IEEE Transactions on Signal Processing, 2017, 65, 1945-1960.	5.3	57
20	Flexible design of cognitive radio wireless systems. IEEE Signal Processing Magazine, 2009, 26, 107-123.	5.6	56
21	Hybrid Random/Deterministic Parallel Algorithms for Convex and Nonconvex Big Data Optimization. IEEE Transactions on Signal Processing, 2015, 63, 3914-3929.	5.3	55
22	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
23	Distributed nonconvex multiagent optimization over time-varying networks. , 2016, , .		48
24	Nonconvex Games with Side Constraints. SIAM Journal on Optimization, 2011, 21, 1491-1522.	2.0	46
25	Robust MIMO Cognitive Radio Systems Under Interference Temperature Constraints. IEEE Journal on Selected Areas in Communications, 2013, 31, 2465-2482.	14.0	41
26	Achieving Linear Convergence in Distributed Asynchronous Multiagent Optimization. IEEE Transactions on Automatic Control, 2020, 65, 5264-5279.	5.7	38
27	VI-constrained hemivariational inequalities: distributed algorithms and power control in ad-hoc networks. Mathematical Programming, 2014, 145, 59-96.	2.4	33
28	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
29	Parallel and Distributed Successive Convex Approximation Methods for Big-Data Optimization. Lecture Notes in Mathematics, 2018, , 141-308.	0.2	31
30	Distributed nonconvex optimization over networks. , 2015, , .		30
31	Distributed Algorithms for Composite Optimization: Unified Framework and Convergence Analysis. IEEE Transactions on Signal Processing, 2021, 69, 3555-3570.	5.3	27
32	Distributed Consensus Over Wireless Sensor Networks Affected by Multipath Fading. IEEE Transactions on Signal Processing, 2008, 56, 4100-4106.	5.3	23
33	Second-Order Guarantees of Distributed Gradient Algorithms. SIAM Journal on Optimization, 2020, 30, 3029-3068.	2.0	23
34	Multi-Portfolio Optimization: A Potential Game Approach. IEEE Transactions on Signal Processing, 2013, 61, 5590-5602.	5.3	21
35	Feasible methods for nonconvex nonsmooth problems with applications in green communications. Mathematical Programming, 2017, 164, 55-90.	2.4	20
36	Distributed Optimization Based on Gradient Tracking Revisited: Enhancing Convergence Rate via Surrogation. SIAM Journal on Optimization, 2022, 32, 354-385.	2.0	20

GESUALDO SCUTARI

#	Article	IF	CITATIONS
37	Bi-Linear Modeling of Data Manifolds for Dynamic-MRI Recovery. IEEE Transactions on Medical Imaging, 2020, 39, 688-702.	8.9	17
38	Finite Rate Quantized Distributed optimization with Geometric Convergence. , 2018, , .		16
39	Asynchronous parallel algorithms for nonconvex optimization. Mathematical Programming, 2020, 184, 121-154.	2.4	16
40	Distributed nonconvex optimization over time-varying networks. , 2016, , .		14
41	Distributed big-data optimization via block-iterative convexification and averaging. , 2017, , .		12
42	Distributed Big-Data Optimization via Blockwise Gradient Tracking. IEEE Transactions on Automatic Control, 2021, 66, 2045-2060.	5.7	12
43	Asynchronous Optimization Over Graphs: Linear Convergence Under Error Bound Conditions. IEEE Transactions on Automatic Control, 2021, 66, 4604-4619.	5.7	11
44	Non-cooperative games with minmax objectives. Computational Optimization and Applications, 2014, 59, 85-112.	1.6	8
45	Distributed nonconvex optimization for sparse representation. , 2017, , .		8
46	Ghost Penalties in Nonconvex Constrained Optimization: Diminishing Stepsizes and Iteration Complexity. Mathematics of Operations Research, 2021, 46, 595-627.	1.3	8
47	An Accelerated Second-Order Method for Distributed Stochastic Optimization. , 2021, , .		7
48	Finite-Bit Quantization for Distributed Algorithms With Linear Convergence. IEEE Transactions on Information Theory, 2022, 68, 7254-7280.	2.4	7
49	Large-scale nonconvex stochastic optimization by Doubly Stochastic Successive Convex approximation. , 2017, , .		5
50	Distributed big-data optimization via block communications. , 2017, , .		5
51	Topology-agnostic average consensus in sensor networks with limited data rate. , 2017, , .		5
52	Finite Rate Distributed Weight-Balancing and Average Consensus Over Digraphs. IEEE Transactions on Automatic Control, 2021, 66, 4530-4545.	5.7	5
53	Parallel asynchronous lock-free algorithms for nonconvex big-data optimization. , 2016, , .		4
54	Distributed Quantized Weight-Balancing and Average Consensus Over Digraphs. , 2018, , .		4

Distributed Quantized Weight-Balancing and Average Consensus Over Digraphs. , 2018, , . 54

GESUALDO SCUTARI

#	Article	IF	CITATIONS
55	Nonconvex Optimization for Signal Processing and Machine Learning [From the Guest Editors]. IEEE Signal Processing Magazine, 2020, 37, 15-17.	5.6	4
56	Iteration Complexity of a Fixed-Stepsize SQP Method for Nonconvex Optimization with Convex Constraints. Springer Proceedings in Mathematics and Statistics, 2021, , 109-120.	0.2	4
57	A Unified Algorithmic Framework for Distributed Composite Optimization. , 2020, , .		3
58	A Unified Contraction Analysis of a Class of Distributed Algorithms for Composite Optimization. , 2019, , .		2
59	Diminishing stepsize methods for nonconvex composite problems via ghost penalties: from the general to the convex regular constrained case. Optimization Methods and Software, 2022, 37, 1242-1268.	2.4	2
60	Kernel Bi-Linear Modeling for Reconstructing Data on Manifolds: The Dynamic-MRI Case. , 2021, , .		1
61	Kernel Regression Imputation in Manifolds Via Bi-Linear Modeling: The Dynamic-MRI Case. IEEE Transactions on Computational Imaging, 2022, 8, 133-147.	4.4	1