

Francisco Facchinei

List of Publications by Year in descending order

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71
papers

5,277
citations

109321

35
h-index

133252

59
g-index

72
all docs

72
docs citations

72
times ranked

2577
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized Nash Equilibrium Problems. <i>Annals of Operations Research</i> , 2010, 175, 177-211.	4.1	448
2	Generalized Nash equilibrium problems. <i>4or</i> , 2007, 5, 173-210.	1.6	404
3	Convex Optimization, Game Theory, and Variational Inequality Theory. <i>IEEE Signal Processing Magazine</i> , 2010, 27, 35-49.	5.6	256
4	On generalized Nash games and variational inequalities. <i>Operations Research Letters</i> , 2007, 35, 159-164.	0.7	234
5	A semismooth equation approach to the solution of nonlinear complementarity problems. <i>Mathematical Programming</i> , 1996, 75, 407-439.	2.4	232
6	A New Merit Function For Nonlinear Complementarity Problems And A Related Algorithm. <i>SIAM Journal on Optimization</i> , 1997, 7, 225-247.	2.0	228
7	Decomposition by Partial Linearization: Parallel Optimization of Multi-Agent Systems. <i>IEEE Transactions on Signal Processing</i> , 2014, 62, 641-656.	5.3	223
8	Design of Cognitive Radio Systems Under Temperature-Interference Constraints: A Variational Inequality Approach. <i>IEEE Transactions on Signal Processing</i> , 2010, 58, 3251-3271.	5.3	194
9	Parallel and Distributed Methods for Constrained Nonconvex Optimization – Part I: Theory. <i>IEEE Transactions on Signal Processing</i> , 2017, 65, 1929-1944.	5.3	187
10	A smoothing method for mathematical programs with equilibrium constraints. <i>Mathematical Programming</i> , 1999, 85, 107-134.	2.4	168
11	On the Accurate Identification of Active Constraints. <i>SIAM Journal on Optimization</i> , 1998, 9, 14-32.	2.0	164
12	Distributed Power Allocation With Rate Constraints in Gaussian Parallel Interference Channels. <i>IEEE Transactions on Information Theory</i> , 2008, 54, 3471-3489.	2.4	158
13	A game-theoretic approach to computation offloading in mobile cloud computing. <i>Mathematical Programming</i> , 2016, 157, 421-449.	2.4	151
14	Real and Complex Monotone Communication Games. <i>IEEE Transactions on Information Theory</i> , 2014, 60, 4197-4231.	2.4	141
15	Parallel Selective Algorithms for Nonconvex Big Data Optimization. <i>IEEE Transactions on Signal Processing</i> , 2015, 63, 1874-1889.	5.3	132
16	A nonsmooth inexact Newton method for the solution of large-scale nonlinear complementarity problems. <i>Mathematical Programming</i> , 1997, 76, 493-512.	2.4	107
17	On the solution of the KKT conditions of generalized Nash equilibrium problems. <i>SIAM Journal on Optimization</i> , 2011, 21, 1082-1108.	2.0	100
18	Quadratically and superlinearly convergent algorithms for the solution of inequality constrained minimization problems. <i>Journal of Optimization Theory and Applications</i> , 1995, 85, 265-289.	1.5	97

#	ARTICLE	IF	CITATIONS
19	Generalized Nash equilibrium problems and Newton methods. <i>Mathematical Programming</i> , 2009, 117, 163-194.	2.4	94
20	Penalty Methods for the Solution of Generalized Nash Equilibrium Problems. <i>SIAM Journal on Optimization</i> , 2010, 20, 2228-2253.	2.0	92
21	Solving quasi-variational inequalities via their KKT conditions. <i>Mathematical Programming</i> , 2014, 144, 369-412.	2.4	92
22	Decomposition algorithms for generalized potential games. <i>Computational Optimization and Applications</i> , 2011, 50, 237-262.	1.6	90
23	An Active Set Newton Algorithm for Large-Scale Nonlinear Programs with Box Constraints. <i>SIAM Journal on Optimization</i> , 1998, 8, 158-186.	2.0	80
24	An LP-Newton method: nonsmooth equations, KKT systems, and nonisolated solutions. <i>Mathematical Programming</i> , 2014, 146, 1-36.	2.4	77
25	Minimization of SC1 functions and the Maratos effect. <i>Operations Research Letters</i> , 1995, 17, 131-137.	0.7	75
26	Nash equilibria: the variational approach. , 2009, , 443-493.		68
27	A Theoretical and Numerical Comparison of Some Semismooth Algorithms for Complementarity Problems. <i>Computational Optimization and Applications</i> , 2000, 16, 173-205.	1.6	66
28	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
29	Flexible design of cognitive radio wireless systems. <i>IEEE Signal Processing Magazine</i> , 2009, 26, 107-123.	5.6	56
30	Regularity Properties of a Semismooth Reformulation of Variational Inequalities. <i>SIAM Journal on Optimization</i> , 1998, 8, 850-869.	2.0	55
31	Hybrid Random/Deterministic Parallel Algorithms for Convex and Nonconvex Big Data Optimization. <i>IEEE Transactions on Signal Processing</i> , 2015, 63, 3914-3929.	5.3	55
32	Monotone Games for Cognitive Radio Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2012, , 83-112.	1.0	51
33	The Semismooth Algorithm for Large Scale Complementarity Problems. <i>INFORMS Journal on Computing</i> , 2001, 13, 294-311.	1.7	49
34	A Truncated Newton Algorithm for Large Scale Box Constrained Optimization. <i>SIAM Journal on Optimization</i> , 2002, 12, 1100-1125.	2.0	46
35	On the computation of all solutions of jointly convex generalized Nash equilibrium problems. <i>Optimization Letters</i> , 2011, 5, 531-547.	1.6	40
36	Exact penalty functions for generalized Nash problems. <i>Nonconvex Optimization and Its Applications</i> , 2006, , 115-126.	0.1	40

#	ARTICLE	IF	CITATIONS
37	Inexact Newton Methods for Semismooth Equations with Applications to Variational Inequality Problems. , 1996, , 125-139.		39
38	A family of Newton methods for nonsmooth constrained systems with nonisolated solutions. Mathematical Methods of Operations Research, 2013, 77, 433-443.	1.0	33
39	VI-constrained hemivariational inequalities: distributed algorithms and power control in ad-hoc networks. Mathematical Programming, 2014, 145, 59-96.	2.4	33
40	Structural and Stability Properties of POnonlinear Complementarity Problems. Mathematics of Operations Research, 1998, 23, 735-745.	1.3	31
41	Partial penalization for the solution of generalized Nash equilibrium problems. Journal of Global Optimization, 2011, 50, 39-57.	1.8	31
42	A new error bound result for Generalized Nash Equilibrium Problems and its algorithmic application. Computational Optimization and Applications, 2014, 59, 63-84.	1.6	28
43	Convergence to Second Order Stationary Points in Inequality Constrained Optimization. Mathematics of Operations Research, 1998, 23, 746-766.	1.3	24
44	Exact barrier function methods for Lipschitz programs. Applied Mathematics and Optimization, 1995, 32, 1-31.	1.6	23
45	The semismooth Newton method for the solution of quasi-variational inequalities. Computational Optimization and Applications, 2015, 62, 85-109.	1.6	23
46	Feasible methods for nonconvex nonsmooth problems with applications in green communications. Mathematical Programming, 2017, 164, 55-90.	2.4	20
47	An RQP algorithm using a differentiable exact penalty function for inequality constrained problems. Mathematical Programming, 1992, 55, 49-68.	2.4	18
48	On the Identification of Zero Variables in an Interior-Point Framework. SIAM Journal on Optimization, 2000, 10, 1058-1078.	2.0	17
49	Flexible parallel algorithms for big data optimization. , 2014, , .		17
50	Asynchronous parallel algorithms for nonconvex optimization. Mathematical Programming, 2020, 184, 121-154.	2.4	16
51	Modern Optimization Modelling Techniques. , 2012, , .		14
52	Equilibrium selection in power control games on the interference channel. , 2012, , .		11
53	Asynchronous Optimization Over Graphs: Linear Convergence Under Error Bound Conditions. IEEE Transactions on Automatic Control, 2021, 66, 4604-4619.	5.7	11
54	Non-cooperative games with minmax objectives. Computational Optimization and Applications, 2014, 59, 85-112.	1.6	8

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55	Distributed dictionary learning. , 2016, , .		8
56	Ghost Penalties in Nonconvex Constrained Optimization: Diminishing Stepsizes and Iteration Complexity. Mathematics of Operations Research, 2021, 46, 595-627.	1.3	8
57	Nonmonotone bundle-type scheme for convex nonsmooth minimization. Journal of Optimization Theory and Applications, 1993, 76, 241-257.	1.5	7
58	Title is missing!. Computational Optimization and Applications, 2003, 25, 85-122.	1.6	7
59	Profiled QoE based network controller. , 2015, , .		6
60	Local Feasible QP-Free Algorithms for the Constrained Minimization of SC1 Functions. Journal of Optimization Theory and Applications, 2003, 119, 281-316.	1.5	5
61	Local properties of a newton-like direction for equality constrained minimization problems. Optimization Methods and Software, 1994, 3, 13-26.	2.4	4
62	Design of cognitive radio systems under temperature-interference constraints: A variational inequality approach. , 2010, , .		4
63	Existence and uniqueness of the Nash equilibrium in the non-cooperative QoS routing. International Journal of Control, 2010, 83, 776-788.	1.9	4
64	Parallel asynchronous lock-free algorithms for nonconvex big-data optimization. , 2016, , .		4
65	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
66	Flexible selective parallel algorithms for big data optimization. , 2014, , .		3
67	Distributed Workload Control for Federated Service Discovery. Procedia Computer Science, 2015, 56, 233-241.	2.0	3
68	Refinements of necessary conditions for optimality in nonlinear programming. Journal of Optimization Theory and Applications, 1992, 73, 65-74.	1.5	2
69	A QoE-aware dynamic bandwidth allocation algorithm based on game theory. , 2015, , .		2
70	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
71	Equilibrium selection in MIMO communication games. , 2012, , .		0