Francisco Facchinei

List of Publications by Year
in descending order

71 papers	**5,277** citations	125106 **35** h-index	150775 **59** g-index
72 all docs	**72** docs citations	**72** times ranked	**3002** 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. Optimization Methods and Software, 2022, 37, 1242-1268.	1.6	2
2	Asynchronous Optimization Over Graphs: Linear Convergence Under Error Bound Conditions. IEEE Transactions on Automatic Control, 2021, 66, 4604-4619.	3.6	11
3	Ghost Penalties in Nonconvex Constrained Optimization: Diminishing Stepsizes and Iteration Complexity. Mathematics of Operations Research, 2021, 46, 595-627.	0.8	8
4	Iteration Complexity of a Fixed-Stepsize SQP Method for Nonconvex Optimization with Convex Constraints. Springer Proceedings in Mathematics and Statistics, 2021, , 109-120.	0.1	4
5	Asynchronous parallel algorithms for nonconvex optimization. Mathematical Programming, 2020, 184, 121-154.	1.6	16
6	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.	3.2	57
7	Parallel and Distributed Methods for Constrained Nonconvex Optimization—Part I: Theory. IEEE Transactions on Signal Processing, 2017, 65, 1929-1944.	3.2	187
8	Feasible methods for nonconvex nonsmooth problems with applications in green communications. Mathematical Programming, 2017, 164, 55-90.	1.6	20
9	Distributed dictionary learning. , 2016, , .		8
10	Parallel asynchronous lock-free algorithms for nonconvex big-data optimization. , 2016, , .		4
11	A game-theoretic approach to computation offloading in mobile cloud computing. Mathematical Programming, 2016, 157, 421-449.	1.6	151
12	Distributed Workload Control for Federated Service Discovery. Procedia Computer Science, 2015, 56, 233-241.	1.2	3
13	Hybrid Random/Deterministic Parallel Algorithms for Convex and Nonconvex Big Data Optimization. IEEE Transactions on Signal Processing, 2015, 63, 3914-3929.	3.2	55
14	Parallel Selective Algorithms for Nonconvex Big Data Optimization. IEEE Transactions on Signal Processing, 2015, 63, 1874-1889.	3.2	132
15	Profiled QoE based network controller. , 2015, , .		6
16	A QoE-aware dynamic bandwidth allocation algorithm based on game theory. , 2015, , .		2
17	The semismooth Newton method for the solution of quasi-variational inequalities. Computational Optimization and Applications, 2015, 62, 85-109.	0.9	23
18	Flexible selective parallel algorithms for big data optimization. , 2014, , .		3

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19	A new error bound result for Generalized Nash Equilibrium Problems and its algorithmic application. Computational Optimization and Applications, 2014, 59, 63-84.	0.9	28
20	An LP-Newton method: nonsmooth equations, KKT systems, and nonisolated solutions. Mathematical Programming, 2014, 146, 1-36.	1.6	77
21	Solving quasi-variational inequalities via their KKT conditions. Mathematical Programming, 2014, 144, 369-412.	1.6	92
22	Non-cooperative games with minmax objectives. Computational Optimization and Applications, 2014, 59, 85-112.	0.9	8
23	Decomposition by Partial Linearization: Parallel Optimization of Multi-Agent Systems. IEEE Transactions on Signal Processing, 2014, 62, 641-656.	3.2	223
24	Flexible parallel algorithms for big data optimization. , 2014, , .		17
25	Real and Complex Monotone Communication Games. IEEE Transactions on Information Theory, 2014, 60, 4197-4231.	1.5	141
26	VI-constrained hemivariational inequalities: distributed algorithms and power control in ad-hoc networks. Mathematical Programming, 2014, 145, 59-96.	1.6	33
27	A family of Newton methods for nonsmooth constrained systems with nonisolated solutions. Mathematical Methods of Operations Research, 2013, 77, 433-443.	0.4	33
28	Modern Optimization Modelling Techniques. , 2012, , .		14
29	Equilibrium selection in power control games on the interference channel. , 2012, , .		11
30	Monotone Games for Cognitive Radio Systems. Lecture Notes in Control and Information Sciences, 2012, , 83-112.	0.6	51
31	Equilibrium selection in MIMO communication games. , 2012, , .		0
32	On the solution of the KKT conditions of generalized Nash equilibrium problems. SIAM Journal on Optimization, 2011, 21, 1082-1108.	1.2	100
33	Partial penalization for the solution of generalized Nash equilibrium problems. Journal of Global Optimization, 2011, 50, 39-57.	1.1	31
34	Decomposition algorithms for generalized potential games. Computational Optimization and Applications, 2011, 50, 237-262.	0.9	90
35	On the computation of all solutions of jointly convex generalized Nash equilibrium problems. Optimization Letters, 2011, 5, 531-547.	0.9	40
36	Generalized Nash Equilibrium Problems. Annals of Operations Research, 2010, 175, 177-211.	2.6	448

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37	Design of cognitive radio systems under temperature-interference constraints: A variational inequality approach. , 2010, , .		4
38	Design of Cognitive Radio Systems Under Temperature-Interference Constraints: A Variational Inequality Approach. IEEE Transactions on Signal Processing, 2010, 58, 3251-3271.	3.2	194
39	Convex Optimization, Game Theory, and Variational Inequality Theory. IEEE Signal Processing Magazine, 2010, 27, 35-49.	4.6	256
40	Penalty Methods for the Solution of Generalized Nash Equilibrium Problems. SIAM Journal on Optimization, 2010, 20, 2228-2253.	1.2	92
41	Existence and uniqueness of the Nash equilibrium in the non-cooperative QoS routing. International Journal of Control, 2010, 83, 776-788.	1.2	4
42	Generalized Nash equilibrium problems and Newton methods. Mathematical Programming, 2009, 117, 163-194.	1.6	94
43	Flexible design of cognitive radio wireless systems. IEEE Signal Processing Magazine, 2009, 26, 107-123.	4.6	56
44	Nash equilibria: the variational approach. , 2009, , 443-493.		68
45	Distributed Power Allocation With Rate Constraints in Gaussian Parallel Interference Channels. IEEE Transactions on Information Theory, 2008, 54, 3471-3489.	1.5	158
46	On generalized Nash games and variational inequalities. Operations Research Letters, 2007, 35, 159-164.	0.5	234
47	Generalized Nash equilibrium problems. 4or, 2007, 5, 173-210.	1.0	404
48	Exact penalty functions for generalized Nash problems. Nonconvex Optimization and Its Applications, 2006, , 115-126.	0.1	40
49	Local Feasible QP-Free Algorithms for the Constrained Minimization of SC1 Functions. Journal of Optimization Theory and Applications, 2003, 119, 281-316.	0.8	5
50	Title is missing!. Computational Optimization and Applications, 2003, 25, 85-122.	0.9	7
51	A Truncated Newton Algorithm for Large Scale Box Constrained Optimization. SIAM Journal on Optimization, 2002, 12, 1100-1125.	1.2	46
52	The Semismooth Algorithm for Large Scale Complementarity Problems. INFORMS Journal on Computing, 2001, 13, 294-311.	1.0	49
53	A Theoretical and Numerical Comparison of Some Semismooth Algorithms for Complementarity Problems. Computational Optimization and Applications, 2000, 16, 173-205.	0.9	66
54	On the Identification of Zero Variables in an Interior-Point Framework. SIAM Journal on Optimization, 2000, 10, 1058-1078.	1.2	17

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55	A smoothing method for mathematical programs with equilibrium constraints. Mathematical Programming, 1999, 85, 107-134.	1.6	168
56	An Active Set Newton Algorithm for Large-Scale Nonlinear Programs with Box Constraints. SIAM Journal on Optimization, 1998, 8, 158-186.	1.2	80
57	On the Accurate Identification of Active Constraints. SIAM Journal on Optimization, 1998, 9, 14-32.	1.2	164
58	Regularity Properties of a Semismooth Reformulation of Variational Inequalities. SIAM Journal on Optimization, 1998, 8, 850-869.	1.2	55
59	Structural and Stability Properties of P0 Nonlinear Complementarity Problems. Mathematics of Operations Research, 1998, 23, 735-745.	0.8	31
60	Convergence to Second Order Stationary Points in Inequality Constrained Optimization. Mathematics of Operations Research, 1998, 23, 746-766.	0.8	24
61	A New Merit Function For Nonlinear Complementarity Problems And A Related Algorithm. SIAM Journal on Optimization, 1997, 7, 225-247.	1.2	228
62	A nonsmooth inexact Newton method for the solution of large-scale nonlinear complementarity problems. Mathematical Programming, 1997, 76, 493-512.	1.6	107
63	A semismooth equation approach to the solution of nonlinear complementarity problems. Mathematical Programming, 1996, 75, 407-439.	1.6	232
64	Inexact Newton Methods for Semismooth Equations with Applications to Variational Inequality Problems. , 1996, , 125-139.		39
65	Minimization of SC1 functions and the Maratos effect. Operations Research Letters, 1995, 17, 131-137.	0.5	75
66	Quadratically and superlinearly convergent algorithms for the solution of inequality constrained minimization problems. Journal of Optimization Theory and Applications, 1995, 85, 265-289.	0.8	97
67	Exact barrier function methods for Lipschitz programs. Applied Mathematics and Optimization, 1995, 32, 1-31.	0.8	23
68	Local properties of a newton-like direction for equality constrained minimization problems. Optimization Methods and Software, 1994, 3, 13-26.	1.6	4
69	Nonmonotone bundle-type scheme for convex nonsmooth minimization. Journal of Optimization Theory and Applications, 1993, 76, 241-257.	0.8	7
70	Refinements of necessary conditions for optimality in nonlinear programming. Journal of Optimization Theory and Applications, 1992, 73, 65-74.	0.8	2
71	An RQP algorithm using a differentiable exact penalty function for inequality constrained problems. Mathematical Programming, 1992, 55, 49-68.	1.6	18