Philip E Gill

List of Publications by Year
in descending order

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59	7,637	147566	161609
papers	citations	31	54
		h-index	g-index

64	64	64	4644
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Shifted Primal-Dual Penalty-Barrier Method for Nonlinear Optimization. SIAM Journal on Optimization, 2020, 30, 1067-1093.	1.2	9
2	A stabilized SQP method: global convergence. IMA Journal of Numerical Analysis, 2017, 37, 407-443.	1.5	36
3	A stabilized SQP method: superlinear convergence. Mathematical Programming, 2017, 163, 369-410.	1.6	18
4	Primal and dual active-set methods for convex quadratic programming. Mathematical Programming, 2016, 159, 469-508.	1.6	23
5	A note on â€œOn fast trust region methods for quadratic models with linear constraintsâ€, by Michael J.D. Powell. Mathematical Programming Computation, 2015, 7, 235-235.	3.2	0
6	Methods for convex and general quadratic programming. Mathematical Programming Computation, 2015, 7, 71-112.	3.2	32
7	On the Performance of SQP Methods for Nonlinear Optimization. Springer Proceedings in Mathematics and Statistics, 2015, , 95-123.	0.1	5
8	A Globally Convergent Stabilized SQP Method. SIAM Journal on Optimization, 2013, 23, 1983-2010.	1.2	43
9	OpenSees-SNOPT Framework for Finite-Element-Based Optimization of Structural and Geotechnical Systems. Journal of Structural Engineering, 2012, 138, 822-834.	1.7	25
10	Sequential Quadratic Programming Methods. The IMA Volumes in Mathematics and Its Applications, 2012, , 147-224.	0.5	96
11	A primal-dual augmented Lagrangian. Computational Optimization and Applications, 2012, 51, 1-25.	0.9	62
12	An augmented Lagrangian method for video restoration. , 2011, , .		13
13	An Augmented Lagrangian Method for Total Variation Video Restoration. IEEE Transactions on Image Processing, 2011, 20, 3097-3111.	6.0	481
14	The 2-D magnetotelluric inverse problem solved with optimization. Geophysical Journal International, 2011, 184, 639-650.	1.0	4
15	Dynamical Parameter and State Estimation in Neuron Models. , 2011, , 139-180.		8
16	A Subspace Minimization Method for the Trust-Region Step. SIAM Journal on Optimization, 2010, 20, 1439-1461.	1.2	31
17	Iterative Methods for Finding a Trust-region Step. SIAM Journal on Optimization, 2009, 20, 1110-1131.	1.2	36
18	George B. Dantzig and systems optimization. Discrete Optimization, 2008, 5, 151-158.	0.6	9

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19	State and parameter estimation in nonlinear systems as an optimal tracking problem. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2640-2644.	0.9	45
20	Iterative Solution of Augmented Systems Arising in Interior Methods. SIAM Journal on Optimization, 2007, 18, 666-690.	1.2	31
21	Optimization of tensegrity structures. International Journal of Solids and Structures, 2006, 43, 4687-4703.	1.3	57
22	Algebraic tensegrity form-finding. International Journal of Solids and Structures, 2005, 42, 4833-4858.	1.3	125
23	SNOPT: An SQP Algorithm for Large-Scale Constrained Optimization. SIAM Review, 2005, 47, 99-131.	4.2	1,797
24	A primal-dual trust region algorithm for nonlinear optimization. Mathematical Programming, 2004, 100, 49.	1.6	14
25	Limited-Memory Reduced-Hessian Methods for Large-Scale Unconstrained Optimization. SIAM Journal on Optimization, 2003, 14, 380-401.	1.2	38
26	Interior Methods For a Class of Elliptic Variational Inequalities. Lecture Notes in Computational Science and Engineering, 2003, , 218-235.	0.1	5
27	SNOPT: An SQP Algorithm for Large-Scale Constrained Optimization. SIAM Journal on Optimization, 2002, 12, 979-1006.	1.2	1,286
28	Interior Methods for Nonlinear Optimization. SIAM Review, 2002, 44, 525-597.	4.2	513
29	Reduced-Hessian Quasi-Newton Methods for Unconstrained Optimization. SIAM Journal on Optimization, 2001, 12, 209-237.	1.2	47
30	An SQP method for the optimal control of large-scale dynamical systems. Journal of Computational and Applied Mathematics, 2000, 120, 197-213.	1.1	53
31	Primal-Dual Interior Methods for Nonconvex Nonlinear Programming. SIAM Journal on Optimization, 1998, 8, 1132-1152.	1.2	128
32	Numerical Optimal Control of Parabolic PDES Using DASOPT. The IMA Volumes in Mathematics and Its Applications, 1997, , 271-299.	0.5	18
33	On the Stability of Cholesky Factorization for Symmetric Quasidefinite Systems. SIAM Journal on Matrix Analysis and Applications, 1996, 17, 35-46.	0.7	55
34	Stability of Symmetric Ill-Conditioned Systems Arising in Interior Methods for Constrained Optimization. SIAM Journal on Matrix Analysis and Applications, 1996, 17, 187-211.	0.7	47
35	Primalâ€"dual methods for linear programming. Mathematical Programming, 1995, 70, 251-277.	1.6	11
36	Preconditioners for Indefinite Systems Arising in Optimization. SIAM Journal on Matrix Analysis and Applications, 1992, 13, 292-311.	0.7	121

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37	A practical anti-cycling procedure for linearly constrained optimization. Mathematical Programming, 1989, 45, 437-474.	1.6	117
38	Chapter III Constrained nonlinear programming. Handbooks in Operations Research and Management Science, 1989, 1, 171-210.	0.6	18
39	Recent developments in constrained optimization. Journal of Computational and Applied Mathematics, 1988, 22, 257-270.	1.1	7
40	Maintaining LU factors of a general sparse matrix. Linear Algebra and Its Applications, 1987, 88-89, 239-270.	0.4	90
41	On projected newton barrier methods for linear programming and an equivalence to Karmarkarâ€™s projective method. Mathematical Programming, 1986, 36, 183-209.	1.6	386
42	Properties of a representation of a basis for the null space. Mathematical Programming, 1985, 33, 172-186.	1.6	25
43	Model Building and Practical Aspects of Nonlinear Programming. , 1985, , 209-247.		21
44	Some issues in implementing a sequential quadratic programming algorithm. ACM SIGNUM Newsletter, 1985, 20, 13-19.	0.2	7
45	Trends in nonlinear programming software. European Journal of Operational Research, 1984, 17, 141-149.	3.5	6
46	Procedures for optimization problems with a mixture of bounds and general linear constraints. ACM Transactions on Mathematical Software, 1984, 10, 282-298.	1.6	175
47	A weighted gram-schmidt method for convex quadratic programming. Mathematical Programming, 1984, 30, 176-195.	1.6	30
48	Sparse Matrix Methods in Optimization. SIAM Journal on Scientific and Statistical Computing, 1984, 5, 562-589.	1.5	50
49	Aquifer Reclamation Design: The Use of Contaminant Transport Simulation Combined With Nonlinear Programing. Water Resources Research, 1984, 20, 415-427.	1.7	242
50	A note on a sufficient-decrease criterion for a non-derivative step-length procedure. Mathematical Programming, 1982, 23, 349-352.	1.6	10
51	QP-BASED METHODS FOR LARGE-SCALE NONLINEARLY CONSTRAINED OPTIMIZATION. , 1981, , 57-98.		4
52	The Design and Structure of a Fortran Program Library for Optimization. ACM Transactions on Mathematical Software, 1979, 5, 259-283.	1.6	22
53	The computation of Lagrange-multiplier estimates for constrained minimization. Mathematical Programming, 1979, 17, 32-60.	1.6	53
54	Algorithms for the Solution of the Nonlinear Least-Squares Problem. SIAM Journal on Numerical Analysis, 1978, 15, 977-992.	1.1	459

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55	Numerically stable methods for quadratic programming. Mathematical Programming, 1978, 14, 349-372.	1.6	152
56	The Design and Implementation of Software for Unconstrained Optimization. , 1978, , 281-334.		0
57	Methods for Computing and Modifying the LDV Factors of a Matrix. Mathematics of Computation, 1975, 29, 1051.	1.1	53
58	Newton-type methods for unconstrained and linearly constrained optimization. Mathematical Programming, 1974, 7, 311-350.	1.6	277
59	A numerically stable form of the simplex algorithm. Linear Algebra and Its Applications, 1973, 7, 99-138.	0.4	78