

Philip E Gill

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

5,999

citations

30

h-index

64

g-index

64

ext. papers

6,864

ext. citations

2.5

avg, IF

5.58

L-index

#	Paper	IF	Citations
63	A Shifted Primal-Dual Penalty-Barrier Method for Nonlinear Optimization. <i>SIAM Journal on Optimization</i> , 2020 , 30, 1067-1093	2	4
62	A stabilized SQP method: global convergence. <i>IMA Journal of Numerical Analysis</i> , 2017 , 37, 407-443	1.8	28
61	A stabilized SQP method: superlinear convergence. <i>Mathematical Programming</i> , 2017 , 163, 369-410	2.1	16
60	Primal and dual active-set methods for convex quadratic programming. <i>Mathematical Programming</i> , 2016 , 159, 469-508	2.1	14
59	A note on On fast trust region methods for quadratic models with linear constraints by Michael J.D. Powell. <i>Mathematical Programming Computation</i> , 2015 , 7, 235-235	7.8	
58	Methods for convex and general quadratic programming. <i>Mathematical Programming Computation</i> , 2015 , 7, 71-112	7.8	20
57	On the Performance of SQP Methods for Nonlinear Optimization. <i>Springer Proceedings in Mathematics and Statistics</i> , 2015 , 95-123	0.2	3
56	A Globally Convergent Stabilized SQP Method. <i>SIAM Journal on Optimization</i> , 2013 , 23, 1983-2010	2	37
55	A primal-dual augmented Lagrangian. <i>Computational Optimization and Applications</i> , 2012 , 51, 1-25	1.4	45
54	OpenSees-SNOPT Framework for Finite-Element-Based Optimization of Structural and Geotechnical Systems. <i>Journal of Structural Engineering</i> , 2012 , 138, 822-834	3	19
53	Sequential Quadratic Programming Methods. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2012 , 147-224	0.5	55
52	An augmented Lagrangian method for total variation video restoration. <i>IEEE Transactions on Image Processing</i> , 2011 , 20, 3097-111	8.7	332
51	The 2-D magnetotelluric inverse problem solved with optimization. <i>Geophysical Journal International</i> , 2011 , 184, 639-650	2.6	3
50	An augmented Lagrangian method for video restoration 2011 ,		8
49	Dynamical Parameter and State Estimation in Neuron Models 2011 , 139-180		8
48	A Subspace Minimization Method for the Trust-Region Step. <i>SIAM Journal on Optimization</i> , 2010 , 20, 1439-1461	2	26
47	Iterative Methods for Finding a Trust-region Step. <i>SIAM Journal on Optimization</i> , 2009 , 20, 1110-1131	2	31

46	George B. Dantzig and systems optimization. <i>Discrete Optimization</i> , 2008 , 5, 151-158	1	7
45	State and parameter estimation in nonlinear systems as an optimal tracking problem. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 2640-2644	2-3	39
44	Iterative Solution of Augmented Systems Arising in Interior Methods. <i>SIAM Journal on Optimization</i> , 2007 , 18, 666-690	2	25
43	Optimization of tensegrity structures. <i>International Journal of Solids and Structures</i> , 2006 , 43, 4687-4703	3.1	47
42	SNOPT: An SQP Algorithm for Large-Scale Constrained Optimization. <i>SIAM Review</i> , 2005 , 47, 99-131	7.4	1289
41	Algebraic tensegrity form-finding. <i>International Journal of Solids and Structures</i> , 2005 , 42, 4833-4858	3.1	116
40	A primal-dual trust region algorithm for nonlinear optimization. <i>Mathematical Programming</i> , 2004 , 100, 49	2.1	10
39	Limited-Memory Reduced-Hessian Methods for Large-Scale Unconstrained Optimization. <i>SIAM Journal on Optimization</i> , 2003 , 14, 380-401	2	30
38	Interior Methods For a Class of Elliptic Variational Inequalities. <i>Lecture Notes in Computational Science and Engineering</i> , 2003 , 218-235	0.3	4
37	SNOPT: An SQP Algorithm for Large-Scale Constrained Optimization. <i>SIAM Journal on Optimization</i> , 2002 , 12, 979-1006	2	1073
36	Interior Methods for Nonlinear Optimization. <i>SIAM Review</i> , 2002 , 44, 525-597	7.4	410
35	Reduced-Hessian Quasi-Newton Methods for Unconstrained Optimization. <i>SIAM Journal on Optimization</i> , 2001 , 12, 209-237	2	37
34	An SQP method for the optimal control of large-scale dynamical systems. <i>Journal of Computational and Applied Mathematics</i> , 2000 , 120, 197-213	2.4	44
33	Primal-Dual Interior Methods for Nonconvex Nonlinear Programming. <i>SIAM Journal on Optimization</i> , 1998 , 8, 1132-1152	2	113
32	Numerical Optimal Control of Parabolic PDES Using DASOPT. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1997 , 271-299	0.5	10
31	On the Stability of Cholesky Factorization for Symmetric Quasidefinite Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1996 , 17, 35-46	1.5	48
30	Stability of Symmetric Ill-Conditioned Systems Arising in Interior Methods for Constrained Optimization. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1996 , 17, 187-211	1.5	41
29	Primal-dual methods for linear programming. <i>Mathematical Programming</i> , 1995 , 70, 251-277	2.1	6

28	Preconditioners for Indefinite Systems Arising in Optimization. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1992 , 13, 292-311	1.5	101
27	A practical anti-cycling procedure for linearly constrained optimization. <i>Mathematical Programming</i> , 1989 , 45, 437-474	2.1	98
26	Chapter III Constrained nonlinear programming. <i>Handbooks in Operations Research and Management Science</i> , 1989 , 1, 171-210		14
25	Recent developments in constrained optimization. <i>Journal of Computational and Applied Mathematics</i> , 1988 , 22, 257-270	2.4	6
24	Maintaining LU factors of a general sparse matrix. <i>Linear Algebra and Its Applications</i> , 1987 , 88-89, 239-270		74
23	On projected newton barrier methods for linear programming and an equivalence to Karmarkar's projective method. <i>Mathematical Programming</i> , 1986 , 36, 183-209	2.1	279
22	Maintaining Lu Factors of a General Sparse Matrix. 1986 ,		2
21	Properties of a representation of a basis for the null space. <i>Mathematical Programming</i> , 1985 , 33, 172-186		22
20	Some issues in implementing a sequential quadratic programming algorithm. <i>ACM SIGNUM Newsletter</i> , 1985 , 20, 13-19		6
19	Model Building and Practical Aspects of Nonlinear Programming 1985 , 209-247		14
18	Trends in nonlinear programming software. <i>European Journal of Operational Research</i> , 1984 , 17, 141-149	5.6	6
17	Procedures for optimization problems with a mixture of bounds and general linear constraints. <i>ACM Transactions on Mathematical Software</i> , 1984 , 10, 282-298	2.3	147
16	A weighted gram-schmidt method for convex quadratic programming. <i>Mathematical Programming</i> , 1984 , 30, 176-195	2.1	24
15	Sparse Matrix Methods in Optimization. <i>SIAM Journal on Scientific and Statistical Computing</i> , 1984 , 5, 562-589		43
14	Aquifer Reclamation Design: The Use of Contaminant Transport Simulation Combined With Nonlinear Programming. <i>Water Resources Research</i> , 1984 , 20, 415-427	5.4	219
13	A note on a sufficient-decrease criterion for a non-derivative step-length procedure. <i>Mathematical Programming</i> , 1982 , 23, 349-352	2.1	9
12	Range-Space Methods for Convex Quadratic Programming. 1982 ,		7
11	Sparse Matrix Methods in Optimization. 1982 ,		6

10	QP-BASED METHODS FOR LARGE-SCALE NONLINEARLY CONSTRAINED OPTIMIZATION 1981 , 57-98		4
9	The computation of Lagrange-multiplier estimates for constrained minimization. <i>Mathematical Programming</i> , 1979 , 17, 32-60	2.1	42
8	The Design and Structure of a Fortran Program Library for Optimization. <i>ACM Transactions on Mathematical Software</i> , 1979 , 5, 259-283	2.3	16
7	Algorithms for the Solution of the Nonlinear Least-Squares Problem. <i>SIAM Journal on Numerical Analysis</i> , 1978 , 15, 977-992	2.4	372
6	Numerically stable methods for quadratic programming. <i>Mathematical Programming</i> , 1978 , 14, 349-372	2.1	128
5	The Design and Implementation of Software for Unconstrained Optimization 1978 , 281-334		
4	Nonlinear least squares and nonlinearly constrained optimization. <i>Lecture Notes in Mathematics</i> , 1976 , 134-147	0.4	10
3	Methods for Computing and Modifying the LDV Factors of a Matrix. <i>Mathematics of Computation</i> , 1975 , 29, 1051	1.6	46
2	Newton-type methods for unconstrained and linearly constrained optimization. <i>Mathematical Programming</i> , 1974 , 7, 311-350	2.1	238
1	A numerically stable form of the simplex algorithm. <i>Linear Algebra and Its Applications</i> , 1973 , 7, 99-138	0.9	67