Philip E Gill

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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
 5,999
 30
 64

 papers
 6,864
 2.5
 5.58

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
63	SNOPT: An SQP Algorithm for Large-Scale Constrained Optimization. <i>SIAM Review</i> , 2005 , 47, 99-131	7.4	1289
62	SNOPT: An SQP Algorithm for Large-Scale Constrained Optimization. <i>SIAM Journal on Optimization</i> , 2002 , 12, 979-1006	2	1073
61	Interior Methods for Nonlinear Optimization. <i>SIAM Review</i> , 2002 , 44, 525-597	7.4	410
60	Algorithms for the Solution of the Nonlinear Least-Squares Problem. <i>SIAM Journal on Numerical Analysis</i> , 1978 , 15, 977-992	2.4	372
59	An augmented Lagrangian method for total variation video restoration. <i>IEEE Transactions on Image Processing</i> , 2011 , 20, 3097-111	8.7	332
58	On projected newton barrier methods for linear programming and an equivalence to Karmarkar projective method. <i>Mathematical Programming</i> , 1986 , 36, 183-209	2.1	279
57	Newton-type methods for unconstrained and linearly constrained optimization. <i>Mathematical Programming</i> , 1974 , 7, 311-350	2.1	238
56	Aquifer Reclamation Design: The Use of Contaminant Transport Simulation Combined With Nonlinear Programing. <i>Water Resources Research</i> , 1984 , 20, 415-427	5.4	219
55	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
54	Numerically stable methods for quadratic programming. <i>Mathematical Programming</i> , 1978 , 14, 349-372	2.1	128
53	Algebraic tensegrity form-finding. <i>International Journal of Solids and Structures</i> , 2005 , 42, 4833-4858	3.1	116
52	Primal-Dual Interior Methods for Nonconvex Nonlinear Programming. <i>SIAM Journal on Optimization</i> , 1998 , 8, 1132-1152	2	113
51	Preconditioners for Indefinite Systems Arising in Optimization. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1992 , 13, 292-311	1.5	101
50	A practical anti-cycling procedure for linearly constrained optimization. <i>Mathematical Programming</i> , 1989 , 45, 437-474	2.1	98
49	Maintaining LU factors of a general sparse matrix. <i>Linear Algebra and Its Applications</i> , 1987 , 88-89, 239-2	. 70 9	74
48	A numerically stable form of the simplex algorithm. <i>Linear Algebra and Its Applications</i> , 1973 , 7, 99-138	0.9	67
47	Sequential Quadratic Programming Methods. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2012 , 147-224	0.5	55

46	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	
45	Optimization of tensegrity structures. <i>International Journal of Solids and Structures</i> , 2006 , 43, 4687-4703	3.1	47	
44	Methods for Computing and Modifying the LDV Factors of a Matrix. <i>Mathematics of Computation</i> , 1975 , 29, 1051	1.6	46	
43	A primal-dual augmented Lagrangian. Computational Optimization and Applications, 2012, 51, 1-25	1.4	45	
42	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	
41	Sparse Matrix Methods in Optimization. <i>SIAM Journal on Scientific and Statistical Computing</i> , 1984 , 5, 562-589		43	
40	The computation of Lagrange-multiplier estimates for constrained minimization. <i>Mathematical Programming</i> , 1979 , 17, 32-60	2.1	42	
39	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	
38	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	
37	A Globally Convergent Stabilized SQP Method. SIAM Journal on Optimization, 2013, 23, 1983-2010	2	37	
36	Reduced-Hessian Quasi-Newton Methods for Unconstrained Optimization. <i>SIAM Journal on Optimization</i> , 2001 , 12, 209-237	2	37	
35	Iterative Methods for Finding a Trust-region Step. SIAM Journal on Optimization, 2009, 20, 1110-1131	2	31	
34	Limited-Memory Reduced-Hessian Methods for Large-Scale Unconstrained Optimization. <i>SIAM Journal on Optimization</i> , 2003 , 14, 380-401	2	30	
33	A stabilized SQP method: global convergence. <i>IMA Journal of Numerical Analysis</i> , 2017 , 37, 407-443	1.8	28	
32	A Subspace Minimization Method for the Trust-Region Step. <i>SIAM Journal on Optimization</i> , 2010 , 20, 1439-1461	2	26	
31	Iterative Solution of Augmented Systems Arising in Interior Methods. <i>SIAM Journal on Optimization</i> , 2007 , 18, 666-690	2	25	
30	A weighted gram-schmidt method for convex quadratic programming. <i>Mathematical Programming</i> , 1984 , 30, 176-195	2.1	24	
29	Properties of a representation of a basis for the null space. <i>Mathematical Programming</i> , 1985 , 33, 172-18	361	22	

28	Methods for convex and general quadratic programming. <i>Mathematical Programming Computation</i> , 2015 , 7, 71-112	7.8	20
27	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
26	A stabilized SQP method: superlinear convergence. <i>Mathematical Programming</i> , 2017 , 163, 369-410	2.1	16
25	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
24	Primal and dual active-set methods for convex quadratic programming. <i>Mathematical Programming</i> , 2016 , 159, 469-508	2.1	14
23	Chapter III Constrained nonlinear programming. <i>Handbooks in Operations Research and Management Science</i> , 1989 , 1, 171-210		14
22	Model Building and Practical Aspects of Nonlinear Programming 1985 , 209-247		14
21	A primal-dual trust region algorithm for nonlinear optimization. <i>Mathematical Programming</i> , 2004 , 100, 49	2.1	10
20	Nonlinear least squares and nonlinearly constrained optimization. <i>Lecture Notes in Mathematics</i> , 1976 , 134-147	0.4	10
19	Numerical Optimal Control of Parabolic PDES Using DASOPT. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1997 , 271-299	0.5	10
18	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
17	An augmented Lagrangian method for video restoration 2011,		8
16	Dynamical Parameter and State Estimation in Neuron Models 2011 , 139-180		8
15	George B. Dantzig and systems optimization. <i>Discrete Optimization</i> , 2008 , 5, 151-158	1	7
14	Range-Space Methods for Convex Quadratic Programming. 1982,		7
13	Primaldual methods for linear programming. <i>Mathematical Programming</i> , 1995 , 70, 251-277	2.1	6
12	Recent developments in constrained optimization. <i>Journal of Computational and Applied Mathematics</i> , 1988 , 22, 257-270	2.4	6
11	Trends in nonlinear programming software. European Journal of Operational Research, 1984 , 17, 141-14	49 5.6	6

LIST OF PUBLICATIONS

10	Newsletter, 1985 , 20, 13-19		6	
9	Sparse Matrix Methods in Optimization. 1982 ,		6	
8	A Shifted Primal-Dual Penalty-Barrier Method for Nonlinear Optimization. <i>SIAM Journal on Optimization</i> , 2020 , 30, 1067-1093	2	4	
7	Interior Methods For a Class of Elliptic Variational Inequalities. <i>Lecture Notes in Computational Science and Engineering</i> , 2003 , 218-235	0.3	4	
6	QP-BASED METHODS FOR LARGE-SCALE NONLINEARLY CONSTRAINED OPTIMIZATION 1981 , 57-98		4	
5	The 2-D magnetotelluric inverse problem solved with optimization. <i>Geophysical Journal International</i> , 2011 , 184, 639-650	2.6	3	
4	On the Performance of SQP Methods for Nonlinear Optimization. <i>Springer Proceedings in Mathematics and Statistics</i> , 2015 , 95-123	0.2	3	
3	Maintaining Lu Factors of a General Sparse Matrix. 1986 ,		2	
2	A note on IDn fast trust region methods for quadratic models with linear constraints Iby Michael J.D. Powell. <i>Mathematical Programming Computation</i> , 2015 , 7, 235-235	7.8		
1	The Design and Implementation of Software for Unconstrained Optimization 1978 , 281-334			