Donald Goldfarb

List of Publications by Year
in descending order

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65 papers	9,247 citations	126907 33 h-index	118850 62 g-index
65 all docs	65 docs citations	65 times ranked	7059 citing authors

#	Article	IF	Citations
1	ADMM for multiaffine constrained optimization. Optimization Methods and Software, 2020, 35, 257-303.	2.4	22
2	Quasi-Newton methods: superlinear convergence without line searches for self-concordant functions. Optimization Methods and Software, 2019, 34, 194-217.	2.4	19
3	Block BFGS Methods. SIAM Journal on Optimization, 2018, 28, 1205-1231.	2.0	7
4	Stochastic Quasi-Newton Methods for Nonconvex Stochastic Optimization. SIAM Journal on Optimization, 2017, 27, 927-956.	2.0	81
5	Greedy Approaches to Symmetric Orthogonal Tensor Decomposition. SIAM Journal on Matrix Analysis and Applications, 2017, 38, 1210-1226.	1.4	6
6	Using negative curvature in solving nonlinear programs. Computational Optimization and Applications, 2017, 68, 479-502.	1.6	8
7	Scalable Robust Matrix Recovery: Frank–Wolfe Meets Proximal Methods. SIAM Journal of Scientific Computing, 2016, 38, A3291-A3317.	2.8	37
8	Successive Rank-One Approximations for Nearly Orthogonally Decomposable Symmetric Tensors. SIAM Journal on Matrix Analysis and Applications, 2015, 36, 1638-1659.	1.4	14
9	An alternating direction method for total variation denoising. Optimization Methods and Software, 2015, 30, 594-615.	2.4	40
10	Efficient algorithms for robust and stable principal component pursuit problems. Computational Optimization and Applications, 2014, 58, 1-29.	1.6	27
11	Fast First-Order Methods for Composite Convex Optimization with Backtracking. Foundations of Computational Mathematics, 2014, 14, 389-417.	2.5	40
12	Robust Low-Rank Tensor Recovery: Models and Algorithms. SIAM Journal on Matrix Analysis and Applications, 2014, 35, 225-253.	1.4	381
13	Fast alternating linearization methods for minimizing the sum of two convex functions. Mathematical Programming, 2013, 141, 349-382.	2.4	139
14	Efficient block-coordinate descent algorithms for the Group Lasso. Mathematical Programming Computation, 2013, 5, 143-169.	4.8	110
15	Accelerated Linearized Bregman Method. Journal of Scientific Computing, 2013, 54, 428-453.	2.3	49
16	On the convergence of an active-set method for â„“₁minimization. Optimization Methods and Software, 2012, 27, 1127-1146.	2.4	35
17	Block Coordinate Descent Methods for Semidefinite Programming. Profiles in Operations Research, 2012, , 533-564.	0.4	24
18	Fast Multiple-Splitting Algorithms for Convex Optimization. SIAM Journal on Optimization, 2012, 22, 533-556.	2.0	46

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19	Fixed point and Bregman iterative methods for matrix rank minimization. Mathematical Programming, 2011, 128, 321-353.	2.4	739
20	Convergence of Fixed-Point Continuation Algorithms for Matrix Rank Minimization. Foundations of Computational Mathematics, 2011, 11, 183-210.	2.5	101
21	Alternating direction augmented Lagrangian methods for semidefinite programming. Mathematical Programming Computation, 2010, 2, 203-230.	4.8	241
22	A Fast Algorithm for Sparse Reconstruction Based on Shrinkage, Subspace Optimization, and Continuation. SIAM Journal of Scientific Computing, 2010, 32, 1832-1857.	2.8	191
23	Parametric Maximum Flow Algorithms for Fast Total Variation Minimization. SIAM Journal of Scientific Computing, 2009, 31, 3712-3743.	2.8	55
24	Bregman Iterative Algorithms for ell_1-Minimization with Applications to Compressed Sensing. SIAM Journal on Imaging Sciences, 2008, 1, 143-168.	2.2	1,121
25	The Total Variation Regularized L^1 Model for Multiscale Decomposition. Multiscale Modeling and Simulation, 2007, 6, 190-211.	1.6	86
26	A comparison of three total variation based texture extraction models. Journal of Visual Communication and Image Representation, 2007, 18, 240-252.	2.8	63
27	An Iterative Regularization Method for Total Variation-Based Image Restoration. Multiscale Modeling and Simulation, 2005, 4, 460-489.	1.6	1,477
28	Second-order Cone Programming Methods for Total Variation-Based Image Restoration. SIAM Journal of Scientific Computing, 2005, 27, 622-645.	2.8	157
29	Image Cartoon-Texture Decomposition and Feature Selection Using the Total Variation Regularized L 1 Functional. Lecture Notes in Computer Science, 2005, , 73-84.	1.3	69
30	Combinatorial interior point methods for generalized network flow problems. Mathematical Programming, 2002, 93, 227-246.	2.4	10
31	A polynomial dual simplex algorithm for the generalized circulation problem. Mathematical Programming, 2002, 91, 271-288.	2.4	28
32	A new scaling algorithm for the minimum cost network flow problem. Operations Research Letters, 1999, 25, 205-211.	0.7	12
33	An O(nm)-Time Network Simplex Algorithm for the Shortest Path Problem. Operations Research, 1999, 47, 445-448.	1.9	14
34	Strongly polynomial dual simplex methods for the maximum flow problem. Mathematical Programming, 1998, 80, 17-33.	2.4	6
35	Polynomial-Time Highest-Gain Augmenting Path Algorithms for the Generalized Circulation Problem. Mathematics of Operations Research, 1997, 22, 793-802.	1.3	51
36	On strongly polynomial dual simplex algorithms for the maximum flow problem. Mathematical Programming, 1997, 78, 159-168.	2.4	5

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37	A Faster Combinatorial Algorithm for the Generalized Circulation Problem. Mathematics of Operations Research, 1996, 21, 529-539.	1.3	39
38	On the Complexity of a Class of Projective Interior Point Methods. Mathematics of Operations Research, 1995, 20, 116-134.	1.3	1
39	A Path-Following Projective Interior Point Method for Linear Programming. SIAM Journal on Optimization, 1994, 4, 65-85.	2.0	6
40	On the Complexity of the Simplex Method. , 1994, , 25-38.		12
41	On the maximum capacity augmentation algorithm for the maximum flow problem. Discrete Applied Mathematics, 1993, 47, 9-16.	0.9	1
42	Partial-Update Newton Methods for Unary, Factorable, and Partially Separable Optimization. SIAM Journal on Optimization, 1993, 3, 382-397.	2.0	13
43	Steepest-edge simplex algorithms for linear programming. Mathematical Programming, 1992, 57, 341-374.	2.4	164
44	Polynomial-time primal simplex algorithms for the minimum cost network flow problem. Algorithmica, 1992, 8, 145-160.	1.3	24
45	On strongly polynomial variants of the network simplex algorithm for the maximum flow problem. Operations Research Letters, 1991, 10, 383-387.	0.7	13
46	Shortest path algorithms using dynamic breadth-first search. Networks, 1991, 21, 29-50.	2.7	14
47	A primal projective interior point method for linear programming. Mathematical Programming, 1991, 51, 17-43.	2.4	19
48	Efficient Shortest Path Simplex Algorithms. Operations Research, 1990, 38, 624-628.	1.9	28
49	A primal simplex algorithm that solves the maximum flow problem in at mostnm pivots and O(n 2 m) time. Mathematical Programming, 1990, 47, 353-365.	2.4	37
50	Anti-stalling pivot rules for the network simplex algorithm. Networks, 1990, 20, 79-91.	2.7	17
51	A Self-Correcting Version of Karmarkarâ€™s Algorithm. SIAM Journal on Numerical Analysis, 1989, 26, 1006-1015.	2.3	8
52	Chapter II Linear programming. Handbooks in Operations Research and Management Science, 1989, , 73-170.	0.6	34
53	A relaxed version of Karmarkar's method. Mathematical Programming, 1988, 40-40, 289-315.	2.4	27
54	A computational comparison of the dinic and network simplex methods for maximum flow. Annals of Operations Research, 1988, 13, 81-123.	4.1	67

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55	Modifications and implementation of the ellipsoid algorithm for linear programming. Mathematical Programming, 1982, 23, 1-19.	2.4	66
56	Feature Articleâ€"The Ellipsoid Method: A Survey. Operations Research, 1981, 29, 1039-1091.	1.9	388
57	Curvilinear path steplength algorithms for minimization which use directions of negative curvature. Mathematical Programming, 1980, 18, 31-40.	2.4	60
58	Worst case behavior of the steepest edge simplex method. Discrete Applied Mathematics, 1979, 1, 277-285.	0.9	48
59	Matrix factorizations in optimization of nonlinear functions subject to linear constraints â€" an addendum. Mathematical Programming, 1977, 12, 279-280.	2.4	1
60	Factorized variable metric methods for unconstrained optimization. Mathematics of Computation, 1976, 30, 796-811.	2.1	47
61	Matrix factorizations in optimization of nonlinear functions subject to linear constraints. Mathematical Programming, 1976, 10, 1-31.	2.4	25
62	Variable metric and conjugate direction methods in unconstrained optimization. , 1972, , .		8
63	A family of variable-metric methods derived by variational means. Mathematics of Computation, 1970, 24, 23-26.	2.1	2,326
64	Extension of Davidonâ€™s Variable Metric Method to Maximization Under Linear Inequality and Equality Constraints. SIAM Journal on Applied Mathematics, 1969, 17, 739-764.	1.8	177
65	Conjugate Gradient Method for Nonlinear Programming Problems with Linear Constraints. Industrial & Engineering Chemistry Fundamentals, 1968, 7, 142-151.	0.7	66