

Yinyu Ye

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.

122
papers

8,911
citations

39
h-index

94
g-index

133
ext. papers

10,595
ext. citations

2.2
avg, IF

6.54
L-index

#	Paper	IF	Citations
122	Interior-Point Methods. <i>Profiles in Operations Research</i> , 2021 , 129-164	1	
121	Duality and Complementarity. <i>Profiles in Operations Research</i> , 2021 , 41-75	1	
120	Local Duality and Dual Methods. <i>Profiles in Operations Research</i> , 2021 , 487-524	1	
119	Conic Linear Programming. <i>Profiles in Operations Research</i> , 2021 , 165-198	1	2
118	Managing randomization in the multi-block alternating direction method of multipliers for quadratic optimization. <i>Mathematical Programming Computation</i> , 2021 , 13, 339-413	7.8	1
117	An ADMM-based interior-point method for large-scale linear programming. <i>Optimization Methods and Software</i> , 2021 , 36, 389-424	1.3	4
116	Worst-case complexity of cyclic coordinate descent: ($O(n^2)$) gap with randomized version. <i>Mathematical Programming</i> , 2021 , 185, 487-520	2.1	3
115	On the behavior of Lagrange multipliers in convex and nonconvex infeasible interior point methods. <i>Mathematical Programming</i> , 2021 , 186, 257-288	2.1	1
114	Towards solving 2-TBSG efficiently. <i>Optimization Methods and Software</i> , 2020 , 35, 706-721	1.3	
113	Exact semidefinite formulations for a class of (random and non-random) nonconvex quadratic programs. <i>Mathematical Programming</i> , 2020 , 181, 1-17	2.1	12
112	On the Efficiency of Random Permutation for ADMM and Coordinate Descent. <i>Mathematics of Operations Research</i> , 2020 , 45, 233-271	1.5	4
111	A Mathematical Programming Formulation for Optimal Load Shifting of Electricity Demand for the Smart Grid. <i>IEEE Transactions on Big Data</i> , 2020 , 6, 638-651	3.2	15
110	Adaptive Discrete Phase Retrieval 2020 , 47-56		
109	Optimality condition and complexity analysis for linearly-constrained optimization without differentiability on the boundary. <i>Mathematical Programming</i> , 2019 , 178, 263-299	2.1	9
108	Extended ADMM and BCD for nonseparable convex minimization models with quadratic coupling terms: convergence analysis and insights. <i>Mathematical Programming</i> , 2019 , 173, 37-77	2.1	15
107	Sample Average Approximation with Sparsity-Inducing Penalty for High-Dimensional Stochastic Programming. <i>Mathematical Programming</i> , 2019 , 78, 69-108	2.1	3
106	Assessing the System Value of Optimal Load Shifting. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 5943-5952	2.7	7

105	A computation study on an integrated alternating direction method of multipliers for large scale optimization. <i>Optimization Letters</i> , 2018 , 12, 3-15	1.1	2
104	Folded concave penalized sparse linear regression: sparsity, statistical performance, and algorithmic theory for local solutions. <i>Mathematical Programming</i> , 2017 , 166, 207-240	2.1	17
103	Conic Linear Programming. <i>Profiles in Operations Research</i> , 2016 , 149-176	1	4
102	Linear and Nonlinear Programming. <i>Profiles in Operations Research</i> , 2016 ,	1	122
101	The direct extension of ADMM for multi-block convex minimization problems is not necessarily convergent. <i>Mathematical Programming</i> , 2016 , 155, 57-79	2.1	278
100	Duality and Complementarity. <i>Profiles in Operations Research</i> , 2016 , 83-114	1	
99	Interior-Point Methods. <i>Profiles in Operations Research</i> , 2016 , 115-147	1	1
98	Duality and Dual Methods. <i>Profiles in Operations Research</i> , 2016 , 429-465	1	
97	Basic Properties of Linear Programs. <i>Profiles in Operations Research</i> , 2016 , 11-31	1	
96	Likelihood robust optimization for data-driven problems. <i>Computational Management Science</i> , 2016 , 13, 241-261	1	78
95	Linear operators and positive semidefiniteness of symmetric tensor spaces. <i>Science China Mathematics</i> , 2015 , 58, 197-212	0.8	12
94	Complexity analysis of interior point algorithms for non-Lipschitz and nonconvex minimization. <i>Mathematical Programming</i> , 2015 , 149, 301-327	2.1	46
93	A homogeneous interior-point algorithm for nonsymmetric convex conic optimization. <i>Mathematical Programming</i> , 2015 , 150, 391-422	2.1	27
92	Simultaneous beam sampling and aperture shape optimization for SPORT. <i>Medical Physics</i> , 2015 , 42, 1012-22	4.4	12
91	Waterflood management using two-stage optimization with streamline simulation. <i>Computational Geosciences</i> , 2014 , 18, 483-504	2.7	27
90	The Value of Stochastic Modeling in Two-Stage Stochastic Programs with Cost Uncertainty. <i>Operations Research</i> , 2014 , 62, 1377-1393	2.3	13
89	A Dynamic Near-Optimal Algorithm for Online Linear Programming. <i>Operations Research</i> , 2014 , 62, 876-890	2.9	74
88	Complexity of unconstrained (L ₂ -L _p) minimization. <i>Mathematical Programming</i> , 2014 , 143, 371-383	2.1	75

87	Competitive Communication Spectrum Economy and Equilibrium. <i>Journal of the Operations Research Society of China</i> , 2014 , 2, 1-16	1.3	2
86	Warmstarting the homogeneous and self-dual interior point method for linear and conic quadratic problems. <i>Mathematical Programming Computation</i> , 2013 , 5, 1-25	7.8	15
85	On stress matrices of (d + 1)-lateration frameworks in general position. <i>Mathematical Programming</i> , 2013 , 137, 1-17	2.1	14
84	On affine motions and bar frameworks in general position. <i>Linear Algebra and Its Applications</i> , 2013 , 438, 31-36	0.9	14
83	A Dynamic Algorithm for Facilitated Charging of Plug-In Electric Vehicles. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 1772-1779	10.7	19
82	Newsvendor optimization with limited distribution information. <i>Optimization Methods and Software</i> , 2013 , 28, 640-667	1.3	39
81	Beyond convex relaxation: A polynomial-time non-convex optimization approach to network localization 2013 ,		22
80	Selected Open Problems in Discrete Geometry and Optimization. <i>Fields Institute Communications</i> , 2013 , 321-336	0.4	1
79	A FPTAS for computing a symmetric Leontief competitive economy equilibrium. <i>Mathematical Programming</i> , 2012 , 131, 113-129	2.1	7
78	Price of Correlations in Stochastic Optimization. <i>Operations Research</i> , 2012 , 60, 150-162	2.3	35
77	Geometric rounding: a dependent randomized rounding scheme. <i>Journal of Combinatorial Optimization</i> , 2011 , 22, 699-725	0.9	4
76	An interior-point path-following algorithm for computing a Leontief economy equilibrium. <i>Computational Optimization and Applications</i> , 2011 , 50, 223-236	1.4	4
75	Statistical ranking and combinatorial Hodge theory. <i>Mathematical Programming</i> , 2011 , 127, 203-244	2.1	126
74	A note on the complexity of L _p minimization. <i>Mathematical Programming</i> , 2011 , 129, 285-299	2.1	132
73	Universal Rigidity and Edge Sparsification for Sensor Network Localization. <i>SIAM Journal on Optimization</i> , 2010 , 20, 3059-3081	2	25
72	Universal Rigidity: Towards Accurate and Efficient Localization of Wireless Networks 2010 ,		26
71	Semidefinite Relaxation of Quadratic Optimization Problems. <i>IEEE Signal Processing Magazine</i> , 2010 , 27, 20-34	9.4	1699
70	Lower Bound Theory of Nonzero Entries in Solutions of ℓ_2 - ℓ_p Minimization. <i>SIAM Journal of Scientific Computing</i> , 2010 , 32, 2832-2852	2.6	174

69	Distributionally Robust Optimization Under Moment Uncertainty with Application to Data-Driven Problems. <i>Operations Research</i> , 2010 , 58, 595-612	2.3	723
68	Dynamic Spectrum Management With the Competitive Market Model. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 2442-2446	4.8	19
67	Linear and Nonlinear Programming. <i>Profiles in Operations Research</i> , 2008 ,	1	742
66	A Distributed SDP Approach for Large-Scale Noisy Anchor-Free Graph Realization with Applications to Molecular Conformation. <i>SIAM Journal of Scientific Computing</i> , 2008 , 30, 1251-1277	2.6	54
65	Algorithm 875. <i>ACM Transactions on Mathematical Software</i> , 2008 , 34, 1-20	2.3	21
64	Further Relaxations of the Semidefinite Programming Approach to Sensor Network Localization. <i>SIAM Journal on Optimization</i> , 2008 , 19, 655-673	2	112
63	A Unified Theorem on SDP Rank Reduction. <i>Mathematics of Operations Research</i> , 2008 , 33, 910-920	1.5	39
62	Theory of semidefinite programming for Sensor Network Localization. <i>Mathematical Programming</i> , 2007 , 109, 367-384	2.1	176
61	On approximating complex quadratic optimization problems via semidefinite programming relaxations. <i>Mathematical Programming</i> , 2007 , 110, 93-110	2.1	94
60	A path to the Arrow-Debreu competitive market equilibrium. <i>Mathematical Programming</i> , 2007 , 111, 315-348	2.1	35
59	Semidefinite programming based algorithms for sensor network localization. <i>ACM Transactions on Sensor Networks</i> , 2006 , 2, 188-220	2.9	360
58	Lot-sizing scheduling with batch setup times. <i>Journal of Scheduling</i> , 2006 , 9, 299-310	1.6	16
57	Improved complexity results on solving real-number linear feasibility problems. <i>Mathematical Programming</i> , 2006 , 106, 339-363	2.1	2
56	Semidefinite Programming for Sensor Network and Graph Localization 2006 , 247-275		1
55	A New Complexity Result on Solving the Markov Decision Problem. <i>Mathematics of Operations Research</i> , 2005 , 30, 733-749	1.5	30
54	An approximation algorithm for scheduling aircraft with holding time 2004 ,		16
53	Semidefinite programming for ad hoc wireless sensor network localization 2004 ,		314
52	Approximating the 2-catalog segmentation problem using semidefinite programming relaxations. <i>Optimization Methods and Software</i> , 2003 , 18, 705-719	1.3	10

51	Approximation of Dense- $n/2$ -Subgraph and the Complement of Min-Bisection. <i>Journal of Global Optimization</i> , 2003 , 25, 55-73	1.5	13
50	New Results on Quadratic Minimization. <i>SIAM Journal on Optimization</i> , 2003 , 14, 245-267	2	157
49	On some interior-point algorithms for nonconvex quadratic optimization. <i>Mathematical Programming</i> , 2002 , 93, 217-225	2.1	6
48	An improved rounding method and semidefinite programming relaxation for graph partition. <i>Mathematical Programming</i> , 2002 , 92, 509-535	2.1	50
47	Optimization with few violated constraints for linear bounded error parameter estimation. <i>IEEE Transactions on Automatic Control</i> , 2002 , 47, 1067-1077	5.9	23
46	A ϵ -approximation algorithm for Max-Bisection. <i>Mathematical Programming</i> , 2001 , 90, 101-111	2.1	58
45	Characterizations, bounds, and probabilistic analysis of two complexity measures for linear programming problems. <i>Mathematical Programming</i> , 2001 , 90, 59-69	2.1	22
44	Blind channel equalization and ϵ -approximation algorithms. <i>IEEE Transactions on Signal Processing</i> , 2001 , 49, 2823-2831	4.8	6
43	An Efficient Algorithm for Minimizing a Sum of p -Norms. <i>SIAM Journal on Optimization</i> , 2000 , 10, 551-579		46
42	Solving Large-Scale Sparse Semidefinite Programs for Combinatorial Optimization. <i>SIAM Journal on Optimization</i> , 2000 , 10, 443-461	2	172
41	Convergence results of the analytic center estimator. <i>IEEE Transactions on Automatic Control</i> , 2000 , 45, 569-572	5.9	3
40	On Homotopy-Smoothing Methods for Box-Constrained Variational Inequalities. <i>SIAM Journal on Control and Optimization</i> , 1999 , 37, 589-616	1.9	67
39	Approximating Global Quadratic Optimization with Convex Quadratic Constraints. <i>Journal of Global Optimization</i> , 1999 , 15, 1-17	1.5	21
38	On a homogeneous algorithm for the monotone complementarity problem. <i>Mathematical Programming</i> , 1999 , 84, 375-399	2.1	56
37	Approximating quadratic programming with bound and quadratic constraints. <i>Mathematical Programming</i> , 1999 , 84, 219-226	2.1	98
36	Constrained logarithmic least squares in parameter estimation. <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 182-186	5.9	3
35	Probabilistic Analysis of an Infeasible-Interior-Point Algorithm for Linear Programming. <i>Mathematics of Operations Research</i> , 1999 , 24, 176-192	1.5	13
34	A Computational Study of the Homogeneous Algorithm for Large-scale Convex Optimization. <i>Computational Optimization and Applications</i> , 1998 , 10, 243-269	1.4	33

33	On the complexity of approximating a KKT point of quadratic programming. <i>Mathematical Programming</i> , 1998 , 80, 195-211	2.1	28
32	Approximate Farkas lemmas and stopping rules for iterative infeasible-point algorithms for linear programming. <i>Mathematical Programming</i> , 1998 , 81, 1-21	2.1	6
31	1997 ,		437
30	On homogeneous and self-dual algorithms for LCP. <i>Mathematical Programming</i> , 1997 , 76, 211-221	2.1	25
29	Predictor-corrector method for nonlinear complementarity problem. <i>Acta Mathematicae Applicatae Sinica</i> , 1997 , 13, 321-328	0.3	3
28	An Asymptotical $O(\sqrt{n})$ -Iteration Path-Following Linear Programming Algorithm That Uses Wide Neighborhoods. <i>SIAM Journal on Optimization</i> , 1996 , 6, 570-586	2	25
27	A simplified homogeneous and self-dual linear programming algorithm and its implementation. <i>Annals of Operations Research</i> , 1996 , 62, 151-171	3.2	75
26	A lower bound on the number of iterations of long-step primal-dual linear programming algorithms. <i>Annals of Operations Research</i> , 1996 , 62, 233-252	3.2	11
25	Identifying an optimal basis in linear programming. <i>Annals of Operations Research</i> , 1996 , 62, 565-572	3.2	4
24	A primal-dual interior point method whose running time depends only on the constraint matrix. <i>Mathematical Programming</i> , 1996 , 74, 79-120	2.1	51
23	Complexity analysis of the analytic center cutting plane method that uses multiple cuts. <i>Mathematical Programming</i> , 1996 , 78, 85-104	2.1	8
22	An $O(nL)$ -Iteration Homogeneous and Self-Dual Linear Programming Algorithm. <i>Mathematics of Operations Research</i> , 1994 , 19, 53-67	1.5	235
21	Toward Probabilistic Analysis of Interior-Point Algorithms for Linear Programming. <i>Mathematics of Operations Research</i> , 1994 , 19, 38-52	1.5	27
20	Solution of P_0 -Matrix Linear Complementarity Problems Using a potential Reduction Algorithm. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1993 , 14, 1048-1060	1.5	21
19	A Quadratically Convergent Polynomial Algorithm for Solving Entropy Optimization Problems. <i>SIAM Journal on Optimization</i> , 1993 , 3, 843-860	2	24
18	On Adaptive-Step Primal-Dual Interior-Point Algorithms for Linear Programming. <i>Mathematics of Operations Research</i> , 1993 , 18, 964-981	1.5	272
17	A Fully Polynomial-Time Approximation Algorithm for Computing a Stationary Point of the General Linear Complementarity Problem. <i>Mathematics of Operations Research</i> , 1993 , 18, 334-345	1.5	44
16	An extension of the potential reduction algorithm for linear complementarity problems with some priority goals. <i>Linear Algebra and Its Applications</i> , 1993 , 193, 35-50	0.9	4

15	Convergence behavior of interior-point algorithms. <i>Mathematical Programming</i> , 1993 , 60, 215-228	2.1	116
14	Average Performance of a SelfDual Interior Point Algorithm for Linear Programming 1993 , 1-15		6
13	Translational Cuts for Convex Minimization 1993 , 57-73		3
12	Implementation of interior-point algorithms for some entropy optimization problems. <i>Optimization Methods and Software</i> , 1992 , 1, 71-80	1.3	8
11	A Potential Reduction Algorithm Allowing Column Generation. <i>SIAM Journal on Optimization</i> , 1992 , 2, 7-20	2	51
10	On the finite convergence of interior-point algorithms for linear programming. <i>Mathematical Programming</i> , 1992 , 57, 325-335	2.1	55
9	An interior point potential reduction algorithm for the linear complementarity problem. <i>Mathematical Programming</i> , 1992 , 54, 267-279	2.1	48
8	Comparative analysis of affine scaling algorithms based on simplifying assumptions. <i>Mathematical Programming</i> , 1991 , 52, 405-414	2.1	4
7	An $O(n^3 L)$ potential reduction algorithm for linear programming. <i>Mathematical Programming</i> , 1991 , 50, 239-258	2.1	204
6	Recovering Optimal Basic Variables in Karmarkar's Polynomial Algorithm for Linear Programming. <i>Mathematics of Operations Research</i> , 1990 , 15, 564-572	1.5	7
5	Interior-point algorithms for global optimization. <i>Annals of Operations Research</i> , 1990 , 25, 59-73	3.2	4
4	Containing and shrinking ellipsoids in the path-following algorithm. <i>Mathematical Programming</i> , 1990 , 47, 1-9	2.1	18
3	A Centered Projective Algorithm for Linear Programming. <i>Mathematics of Operations Research</i> , 1990 , 15, 508-529	1.5	119
2	An extension of Karmarkar's projective algorithm for convex quadratic programming. <i>Mathematical Programming</i> , 1989 , 44, 157-179	2.1	128
1	Bounded error parameter estimation: a sequential analytic center approach		3