

# Yinyu Ye

## List of Publications by Year in descending order

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128  
papers

12,235  
citations

71102

41  
h-index

30087

103  
g-index

133  
all docs

133  
docs citations

133  
times ranked

7404  
citing authors

#	ARTICLE	IF	CITATIONS
1	Semidefinite Relaxation of Quadratic Optimization Problems. IEEE Signal Processing Magazine, 2010, 27, 20-34.	5.6	2,486
2	Distributionally Robust Optimization Under Moment Uncertainty with Application to Data-Driven Problems. Operations Research, 2010, 58, 595-612.	1.9	1,155
3	Linear and Nonlinear Programming. Profiles in Operations Research, 2008, , .	0.4	899
4	Semidefinite programming based algorithms for sensor network localization. ACM Transactions on Sensor Networks, 2006, 2, 188-220.	3.6	441
5	The direct extension of ADMM for multi-block convex minimization problems is not necessarily convergent. Mathematical Programming, 2016, 155, 57-79.	2.4	432
6	Semidefinite programming for ad hoc wireless sensor network localization. , 2004, , .		407
7	On Adaptive-Step Primal-Dual Interior-Point Algorithms for Linear Programming. Mathematics of Operations Research, 1993, 18, 964-981.	1.3	322
8	An $O(\tilde{n}L)$ -Iteration Homogeneous and Self-Dual Linear Programming Algorithm. Mathematics of Operations Research, 1994, 19, 53-67.	1.3	285
9	An $O(n^3 L)$ potential reduction algorithm for linear programming. Mathematical Programming, 1991, 50, 239-258.	2.4	247
10	Theory of semidefinite programming for Sensor Network Localization. Mathematical Programming, 2007, 109, 367-384.	2.4	226
11	Lower Bound Theory of Nonzero Entries in Solutions of $\ell_2$ - $\ell_p$ Minimization. SIAM Journal of Scientific Computing, 2010, 32, 2832-2852.	2.8	217
12	Solving Large-Scale Sparse Semidefinite Programs for Combinatorial Optimization. SIAM Journal on Optimization, 2000, 10, 443-461.	2.0	203
13	New Results on Quadratic Minimization. SIAM Journal on Optimization, 2003, 14, 245-267.	2.0	196
14	Linear and Nonlinear Programming. Profiles in Operations Research, 2016, , .	0.4	191
15	Statistical ranking and combinatorial Hodge theory. Mathematical Programming, 2011, 127, 203-244.	2.4	187
16	An extension of Karmarkar's projective algorithm for convex quadratic programming. Mathematical Programming, 1989, 44, 157-179.	2.4	172
17	A note on the complexity of $L_p$ minimization. Mathematical Programming, 2011, 129, 285-299.	2.4	165
18	On approximating complex quadratic optimization problems via semidefinite programming relaxations. Mathematical Programming, 2007, 110, 93-110.	2.4	153

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19	A Centered Projective Algorithm for Linear Programming. <i>Mathematics of Operations Research</i> , 1990, 15, 508-529.	1.3	141
20	Further Relaxations of the Semidefinite Programming Approach to Sensor Network Localization. <i>SIAM Journal on Optimization</i> , 2008, 19, 655-673.	2.0	140
21	Convergence behavior of interior-point algorithms. <i>Mathematical Programming</i> , 1993, 60, 215-228.	2.4	135
22	Approximating quadratic programming with bound and quadratic constraints. <i>Mathematical Programming</i> , 1999, 84, 219-226.	2.4	131
23	A Dynamic Near-Optimal Algorithm for Online Linear Programming. <i>Operations Research</i> , 2014, 62, 876-890.	1.9	129
24	Likelihood robust optimization for data-driven problems. <i>Computational Management Science</i> , 2016, 13, 241-261.	1.3	119
25	Complexity of unconstrained $L_2$ - $L_p$ minimization. <i>Mathematical Programming</i> , 2014, 143, 371-383.	2.4	96
26	A simplified homogeneous and self-dual linear programming algorithm and its implementation. <i>Annals of Operations Research</i> , 1996, 62, 151-171.	4.1	92
27	On Homotopy-Smoothing Methods for Box-Constrained Variational Inequalities. <i>SIAM Journal on Control and Optimization</i> , 1999, 37, 589-616.	2.1	82
28	A .699-approximation algorithm for Max-Bisection. <i>Mathematical Programming</i> , 2001, 90, 101-111.	2.4	81
29	A primal-dual interior point method whose running time depends only on the constraint matrix. <i>Mathematical Programming</i> , 1996, 74, 79-120.	2.4	79
30	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.	2.8	74
31	On a homogeneous algorithm for the monotone complementarity problem. <i>Mathematical Programming</i> , 1999, 84, 375-399.	2.4	70
32	On the finite convergence of interior-point algorithms for linear programming. <i>Mathematical Programming</i> , 1992, 57, 325-335.	2.4	69
33	A Potential Reduction Algorithm Allowing Column Generation. <i>SIAM Journal on Optimization</i> , 1992, 2, 7-20.	2.0	62
34	An improved rounding method and semidefinite programming relaxation for graph partition. <i>Mathematical Programming</i> , 2002, 92, 509-535.	2.4	62
35	An interior point potential reduction algorithm for the linear complementarity problem. <i>Mathematical Programming</i> , 1992, 54, 267-279.	2.4	61
36	Complexity analysis of interior point algorithms for non-Lipschitz and nonconvex minimization. <i>Mathematical Programming</i> , 2015, 149, 301-327.	2.4	60

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37	A path to the Arrow-Debreu competitive market equilibrium. <i>Mathematical Programming</i> , 2007, 111, 315-348.	2.4	58
38	Price of Correlations in Stochastic Optimization. <i>Operations Research</i> , 2012, 60, 150-162.	1.9	58
39	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.	1.3	57
40	An Efficient Algorithm for Minimizing a Sum of p-Norms. <i>SIAM Journal on Optimization</i> , 2000, 10, 551-579.	2.0	57
41	Newsvendor optimization with limited distribution information. <i>Optimization Methods and Software</i> , 2013, 28, 640-667.	2.4	57
42	A Unified Theorem on SDP Rank Reduction. <i>Mathematics of Operations Research</i> , 2008, 33, 910-920.	1.3	48
43	A Computational Study of the Homogeneous Algorithm for Large-scale Convex Optimization. <i>Computational Optimization and Applications</i> , 1998, 10, 243-269.	1.6	41
44	Waterflood management using two-stage optimization with streamline simulation. <i>Computational Geosciences</i> , 2014, 18, 483-504.	2.4	40
45	On the complexity of approximating a KKT point of quadratic programming. <i>Mathematical Programming</i> , 1998, 80, 195-211.	2.4	39
46	A homogeneous interior-point algorithm for nonsymmetric convex conic optimization. <i>Mathematical Programming</i> , 2015, 150, 391-422.	2.4	39
47	A New Complexity Result on Solving the Markov Decision Problem. <i>Mathematics of Operations Research</i> , 2005, 30, 733-749.	1.3	36
48	Toward Probabilistic Analysis of Interior-Point Algorithms for Linear Programming. <i>Mathematics of Operations Research</i> , 1994, 19, 38-52.	1.3	35
49	An Asymptotical $O(\sqrt{n}L)$ -Iteration Path-Following Linear Programming Algorithm That Uses Wide Neighborhoods. <i>SIAM Journal on Optimization</i> , 1996, 6, 570-586.	2.0	32
50	Optimization with few violated constraints for linear bounded error parameter estimation. <i>IEEE Transactions on Automatic Control</i> , 2002, 47, 1067-1077.	5.7	32
51	Universal Rigidity: Towards Accurate and Efficient Localization of Wireless Networks. , 2010, , .		32
52	Beyond convex relaxation: A polynomial-time non-convex optimization approach to network localization. , 2013, , .		31
53	On homogeneous and self-dual algorithms for LCP. <i>Mathematical Programming</i> , 1997, 76, 211-221.	2.4	30
54	Complexity analysis of the analytic center cutting plane method that uses multiple cuts. <i>Mathematical Programming</i> , 1996, 78, 85-104.	2.4	29

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55	Algorithm 875. ACM Transactions on Mathematical Software, 2008, 34, 1-20.	2.9	29
56	Universal Rigidity and Edge Sparsification for Sensor Network Localization. SIAM Journal on Optimization, 2010, 20, 3059-3081.	2.0	29
57	A Quadratically Convergent Polynomial Algorithm for Solving Entropy Optimization Problems. SIAM Journal on Optimization, 1993, 3, 843-860.	2.0	28
58	Exact semidefinite formulations for a class of (random and non-random) nonconvex quadratic programs. Mathematical Programming, 2020, 181, 1-17.	2.4	28
59	Approximating Global Quadratic Optimization with Convex Quadratic Constraints. Journal of Global Optimization, 1999, 15, 1-17.	1.8	27
60	Characterizations, bounds, and probabilistic analysis of two complexity measures for linear programming problems. Mathematical Programming, 2001, 90, 59-69.	2.4	27
61	Folded concave penalized sparse linear regression: sparsity, statistical performance, and algorithmic theory for local solutions. Mathematical Programming, 2017, 166, 207-240.	2.4	27
62	A Mathematical Programming Formulation for Optimal Load Shifting of Electricity Demand for the Smart Grid. IEEE Transactions on Big Data, 2020, 6, 638-651.	6.1	27
63	Dynamic Spectrum Management With the Competitive Market Model. IEEE Transactions on Signal Processing, 2010, 58, 2442-2446.	5.3	26
64	A Dynamic Algorithm for Facilitated Charging of Plug-In Electric Vehicles. IEEE Transactions on Smart Grid, 2013, 4, 1772-1779.	9.0	24
65	Solution of $P_0$ -Matrix Linear Complementarity Problems Using a potential Reduction Algorithm. SIAM Journal on Matrix Analysis and Applications, 1993, 14, 1048-1060.	1.4	23
66	Warmstarting the homogeneous and self-dual interior point method for linear and conic quadratic problems. Mathematical Programming Computation, 2013, 5, 1-25.	4.8	23
67	The Value of Stochastic Modeling in Two-Stage Stochastic Programs with Cost Uncertainty. Operations Research, 2014, 62, 1377-1393.	1.9	23
68	Extended ADMM and BCD for nonseparable convex minimization models with quadratic coupling terms: convergence analysis and insights. Mathematical Programming, 2019, 173, 37-77.	2.4	23
69	Containing and shrinking ellipsoids in the path-following algorithm. Mathematical Programming, 1990, 47, 1-9.	2.4	21
70	An approximation algorithm for scheduling aircraft with holding time. , 2004, , .		21
71	Approximation of Dense- $n/2$ -Subgraph and the Complement of Min-Bisection. Journal of Global Optimization, 2003, 25, 55-73.	1.8	20
72	Lot-sizing scheduling with batch setup times. Journal of Scheduling, 2006, 9, 299-310.	1.9	18

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73	On affine motions and bar frameworks in general position. <i>Linear Algebra and Its Applications</i> , 2013, 438, 31-36.	0.9	18
74	Optimality condition and complexity analysis for linearly-constrained optimization without differentiability on the boundary. <i>Mathematical Programming</i> , 2019, 178, 263-299.	2.4	17
75	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.	4.1	16
76	Probabilistic Analysis of an Infeasible-Interior-Point Algorithm for Linear Programming. <i>Mathematics of Operations Research</i> , 1999, 24, 176-192.	1.3	15
77	On stress matrices of $(d\hat{A}+\hat{A}1)$ -lateration frameworks in general position. <i>Mathematical Programming</i> , 2013, 137, 1-17.	2.4	15
78	Simultaneous beam sampling and aperture shape optimization for SPORT. <i>Medical Physics</i> , 2015, 42, 1012-1022.	3.0	15
79	Linear operators and positive semidefiniteness of symmetric tensor spaces. <i>Science China Mathematics</i> , 2015, 58, 197-212.	1.7	15
80	Implementation of interior-point algorithms for some entropy optimization problems. <i>Optimization Methods and Software</i> , 1992, 1, 71-80.	2.4	13
81	An ADMM-based interior-point method for large-scale linear programming. <i>Optimization Methods and Software</i> , 2021, 36, 389-424.	2.4	13
82	Approximating the 2-catalog segmentation problem using semidefinite programming relaxations. <i>Optimization Methods and Software</i> , 2003, 18, 705-719.	2.4	12
83	On the Efficiency of Random Permutation for ADMM and Coordinate Descent. <i>Mathematics of Operations Research</i> , 2020, 45, 233-271.	1.3	12
84	A FPTAS for computing a symmetric Leontief competitive economy equilibrium. <i>Mathematical Programming</i> , 2012, 131, 113-129.	2.4	11
85	Average Performance of a Self-“Dual Interior Point Algorithm for Linear Programming. , 1993, , 1-15.		11
86	Recovering Optimal Basic Variables in Karmarkar's Polynomial Algorithm for Linear Programming. <i>Mathematics of Operations Research</i> , 1990, 15, 564-572.	1.3	10
87	Competitive Communication Spectrum Economy and Equilibrium. <i>Journal of the Operations Research Society of China</i> , 2014, 2, 1-16.	1.4	9
88	Conic Linear Programming. <i>Profiles in Operations Research</i> , 2016, , 149-176.	0.4	9
89	Blind channel equalization and $\hat{\mu}$ -approximation algorithms. <i>IEEE Transactions on Signal Processing</i> , 2001, 49, 2823-2831.	5.3	8
90	Assessing the System Value of Optimal Load Shifting. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 5943-5952.	9.0	8

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91	On the behavior of Lagrange multipliers in convex and nonconvex infeasible interior point methods. <i>Mathematical Programming</i> , 2021, 186, 257-288.	2.4	8
92	Approximate Farkas lemmas and stopping rules for iterative infeasible-point algorithms for linear programming. <i>Mathematical Programming</i> , 1998, 81, 1-21.	2.4	7
93	Sample average approximation with sparsity-inducing penalty for high-dimensional stochastic programming. <i>Mathematical Programming</i> , 2019, 178, 69-108.	2.4	7
94	Managing randomization in the multi-block alternating direction method of multipliers for quadratic optimization. <i>Mathematical Programming Computation</i> , 2021, 13, 339-413.	4.8	7
95	Worst-case complexity of cyclic coordinate descent: $O(n^2)$ gap with randomized version. <i>Mathematical Programming</i> , 2021, 185, 487-520.	2.4	7
96	Online Linear Programming: Dual Convergence, New Algorithms, and Regret Bounds. <i>Operations Research</i> , 2022, 70, 2948-2966.	1.9	7
97	On some interior-point algorithms for nonconvex quadratic optimization. <i>Mathematical Programming</i> , 2002, 93, 217-225.	2.4	6
98	Distributed Stochastic Optimization with Large Delays. <i>Mathematics of Operations Research</i> , 2022, 47, 2082-2111.	1.3	6
99	Identifying an optimal basis in linear programming. <i>Annals of Operations Research</i> , 1996, 62, 565-572.	4.1	5
100	Improved complexity results on solving real-number linear feasibility problems. <i>Mathematical Programming</i> , 2006, 106, 339-363.	2.4	5
101	An interior-point path-following algorithm for computing a Leontief economy equilibrium. <i>Computational Optimization and Applications</i> , 2011, 50, 223-236.	1.6	5
102	Interior-point algorithms for global optimization. <i>Annals of Operations Research</i> , 1990, 25, 59-73.	4.1	4
103	Comparative analysis of affine scaling algorithms based on simplifying assumptions. <i>Mathematical Programming</i> , 1991, 52, 405-414.	2.4	4
104	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
105	Bounded error parameter estimation: a sequential analytic center approach. , 0, , .		4
106	Analytic center approach to parameter estimation: convergence analysis. , 0, , .		4
107	Constrained logarithmic least squares in parameter estimation. <i>IEEE Transactions on Automatic Control</i> , 1999, 44, 182-186.	5.7	4
108	Convergence results of the analytic center estimator. <i>IEEE Transactions on Automatic Control</i> , 2000, 45, 569-572.	5.7	4

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109	Geometric rounding: a dependent randomized rounding scheme. <i>Journal of Combinatorial Optimization</i> , 2011, 22, 699-725.	1.3	4
110	Conic Linear Programming. <i>Profiles in Operations Research</i> , 2021, , 165-198.	0.4	4
111	On the Von Neumann Economic Growth Problem. <i>Mathematics of Operations Research</i> , 1995, 20, 617-633.	1.3	3
112	Predictor-corrector method for nonlinear complementarity problem. <i>Acta Mathematicae Applicatae Sinica</i> , 1997, 13, 321-328.	0.7	3
113	A computation study on an integrated alternating direction method of multipliers for large scale optimization. <i>Optimization Letters</i> , 2018, 12, 3-15.	1.6	3
114	Translational Cuts for Convex Minimization. , 1993, , 57-73.		3
115	Interior-Point Methods. <i>Profiles in Operations Research</i> , 2016, , 115-147.	0.4	2
116	The least squares: output error sensitivity and the constrained logarithmic algorithm. , 1998, , .		1
117	Selected Open Problems in Discrete Geometry and Optimization. <i>Fields Institute Communications</i> , 2013, , 321-336.	1.3	1
118	Potential Reduction Methods for Linear Programming. , 2008, , 3008-3012.		0
119	Duality and Complementarity. <i>Profiles in Operations Research</i> , 2016, , 83-114.	0.4	0
120	Towards solving 2-TBSC efficiently. <i>Optimization Methods and Software</i> , 2020, 35, 706-721.	2.4	0
121	Adaptive Discrete Phase Retrieval. , 2020, , 47-56.		0
122	Variance reduced value iteration and faster algorithms for solving Markov decision processes. <i>Naval Research Logistics</i> , 0, , .	2.2	0
123	Duality and Dual Methods. <i>Profiles in Operations Research</i> , 2016, , 429-465.	0.4	0
124	Basic Properties of Linear Programs. <i>Profiles in Operations Research</i> , 2016, , 11-31.	0.4	0
125	Duality and Complementarity. <i>Profiles in Operations Research</i> , 2021, , 41-75.	0.4	0
126	Local Duality and Dual Methods. <i>Profiles in Operations Research</i> , 2021, , 487-524.	0.4	0



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127	Interior-Point Methods. Profiles in Operations Research, 2021, , 129-164.	0.4	0
128	High-Dimensional Learning Under Approximate Sparsity with Applications to Nonsmooth Estimation and Regularized Neural Networks. Operations Research, 2022, 70, 3176-3197.	1.9	0