

Arkadi S Nemirovski

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.

117
papers

14,392
citations

40
h-index

119
g-index

132
ext. papers

16,643
ext. citations

2.2
avg, IF

6.77
L-index

#	Paper	IF	Citations
117	Constant Depth Decision Rules for multistage optimization under uncertainty. <i>European Journal of Operational Research</i> , 2021 , 295, 223-232	5.6	
116	Convex Optimization for Finite-Horizon Robust Covariance Control of Linear Stochastic Systems. <i>SIAM Journal on Control and Optimization</i> , 2021 , 59, 296-319	1.9	1
115	Convex Parameter Recovery for Interacting Marked Processes. <i>IEEE Journal on Selected Areas in Information Theory</i> , 2020 , 1, 799-813	2.5	1
114	Near-optimal recovery of linear and N-convex functions on unions of convex sets. <i>Information and Inference</i> , 2020 , 9, 423-453	2.4	
113	Algorithms of Robust Stochastic Optimization Based on Mirror Descent Method. <i>Automation and Remote Control</i> , 2019 , 80, 1607-1627	0.6	1
112	Signal Recovery by Stochastic Optimization. <i>Automation and Remote Control</i> , 2019 , 80, 1878-1893	0.6	1
111	Near-optimality of linear recovery from indirect observations. <i>Mathematical Statistics and Learning</i> , 2018 , 1, 171-225	1	1
110	Near-optimality of linear recovery in Gaussian observation scheme under $\ \cdot \ _2$ -loss. <i>Annals of Statistics</i> , 2018 , 46,	3.2	2
109	Decomposition Techniques for Bilinear Saddle Point Problems and Variational Inequalities with Affine Monotone Operators. <i>Journal of Optimization Theory and Applications</i> , 2017 , 172, 402-435	1.6	7
108	Non-asymptotic confidence bounds for the optimal value of a stochastic program. <i>Optimization Methods and Software</i> , 2017 , 32, 1033-1058	1.3	16
107	Solving variational inequalities with monotone operators on domains given by Linear Minimization Oracles. <i>Mathematical Programming</i> , 2016 , 156, 221-256	2.1	6
106	Hypothesis testing via affine detectors. <i>Electronic Journal of Statistics</i> , 2016 , 10,	1.2	1
105	Absence of Eigenvalues for Quasi-Periodic Lattice Operators with Liouville Frequencies. <i>International Mathematics Research Notices</i> , 2016 , rnw036	0.8	1
104	On Solving Large-Scale Polynomial Convex Problems by Randomized First-Order Algorithms. <i>Mathematics of Operations Research</i> , 2015 , 40, 474-494	1.5	2
103	On lower complexity bounds for large-scale smooth convex optimization. <i>Journal of Complexity</i> , 2015 , 31, 1-14	1.2	18
102	Finding the stationary states of Markov chains by iterative methods. <i>Applied Mathematics and Computation</i> , 2015 , 255, 58-65	2.7	12
101	Conditional gradient algorithms for norm-regularized smooth convex optimization. <i>Mathematical Programming</i> , 2015 , 152, 75-112	2.1	39

100	Hypothesis testing by convex optimization. <i>Electronic Journal of Statistics</i> , 2015 , 9,	1.2	8
99	On sequential hypotheses testing via convex optimization. <i>Automation and Remote Control</i> , 2015 , 76, 809-825	0.6	1
98	Mirror Prox algorithm for multi-term composite minimization and semi-separable problems. <i>Computational Optimization and Applications</i> , 2015 , 61, 275-319	1.4	11
97	Robust energy cost optimization of water distribution system with uncertain demand. <i>Automation and Remote Control</i> , 2014 , 75, 1754-1769	0.6	27
96	On a unified view of nullspace-type conditions for recoveries associated with general sparsity structures. <i>Linear Algebra and Its Applications</i> , 2014 , 441, 124-151	0.9	5
95	Dual subgradient algorithms for large-scale nonsmooth learning problems. <i>Mathematical Programming</i> , 2014 , 148, 143-180	2.1	12
94	Sparse non Gaussian component analysis by semidefinite programming. <i>Machine Learning</i> , 2013 , 91, 211-238	2.3	3
93	Randomized first order algorithms with applications to ℓ_1 -minimization. <i>Mathematical Programming</i> , 2013 , 142, 269-310	2.1	6
92	On first-order algorithms for ℓ_1 /nuclear norm minimization. <i>Acta Numerica</i> , 2013 , 22, 509-575	15.1	26
91	A Randomized Mirror-Prox Method for Solving Structured Large-Scale Matrix Saddle-Point Problems. <i>SIAM Journal on Optimization</i> , 2013 , 23, 934-962	2	10
90	On safe tractable approximations of chance constraints. <i>European Journal of Operational Research</i> , 2012 , 219, 707-718	5.6	57
89	Optimal Halbach Permanent Magnet Designs for Maximally Pulling and Pushing Nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 742-754	2.8	64
88	Validation analysis of mirror descent stochastic approximation method. <i>Mathematical Programming</i> , 2012 , 134, 425-458	2.1	53
87	Accuracy guaranties for ℓ_1 recovery of block-sparse signals. <i>Annals of Statistics</i> , 2012 , 40,	3.2	6
86	On Low Rank Matrix Approximations with Applications to Synthesis Problem in Compressed Sensing. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2011 , 32, 1019-1029	1.5	6
85	Solving Variational Inequalities with Stochastic Mirror-Prox Algorithm. <i>Stochastic Systems</i> , 2011 , 1, 17-58	1.7	76
84	. <i>IEEE Transactions on Information Theory</i> , 2011 , 57, 7818-7839	2.8	17
83	On verifiable sufficient conditions for sparse signal recovery via ℓ_1 minimization. <i>Mathematical Programming</i> , 2011 , 127, 57-88	2.1	56

82	Verifiable conditions of ℓ_1 -recovery for sparse signals with sign restrictions. <i>Mathematical Programming</i> , 2011 , 127, 89-122	2.1	14
81	First-Order Methods for Nonsmooth Convex Large-Scale Optimization, I: General Purpose Methods 2011 ,		4
80	Discussion on: Why Is Resorting to Fate Wise? A Critical Look at Randomized Algorithms in Systems and Control <i>European Journal of Control</i> , 2010 , 16, 432-436	2.5	
79	Accuracy Certificates for Computational Problems with Convex Structure. <i>Mathematics of Operations Research</i> , 2010 , 35, 52-78	1.5	25
78	Nonparametric denoising signals of unknown local structure, II: Nonparametric function recovery. <i>Applied and Computational Harmonic Analysis</i> , 2010 , 29, 354-367	3.1	3
77	Self-Concordant Barriers for Convex Approximations of Structured Convex Sets. <i>Foundations of Computational Mathematics</i> , 2010 , 10, 485-525	2.7	4
76	Nonparametric estimation by convex programming. <i>Annals of Statistics</i> , 2009 , 37,	3.2	11
75	Foreword: special issue on nonsmooth optimization and applications. <i>Mathematical Programming</i> , 2009 , 120, 1-2	2.1	
74	Nonparametric denoising of signals with unknown local structure, I: Oracle inequalities. <i>Applied and Computational Harmonic Analysis</i> , 2009 , 27, 157-179	3.1	3
73	Robust Stochastic Approximation Approach to Stochastic Programming. <i>SIAM Journal on Optimization</i> , 2009 , 19, 1574-1609	2	687
72	Minimax Confidence Intervals for Pointwise Nonparametric Regression Estimation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 1586-1590		
71	On Safe Tractable Approximations of Chance-Constrained Linear Matrix Inequalities. <i>Mathematics of Operations Research</i> , 2009 , 34, 1-25	1.5	36
70	Interior-point methods for optimization. <i>Acta Numerica</i> , 2008 , 17, 191-234	15.1	89
69	Robust solutions to conic quadratic problems and their applications. <i>Optimization and Engineering</i> , 2008 , 9, 1-18	2.1	13
68	Large-scale semidefinite programming via a saddle point Mirror-Prox algorithm. <i>Mathematical Programming</i> , 2007 , 109, 211-237	2.1	18
67	Sums of random symmetric matrices and quadratic optimization under orthogonality constraints. <i>Mathematical Programming</i> , 2007 , 109, 283-317	2.1	25
66	Selected topics in robust convex optimization. <i>Mathematical Programming</i> , 2007 , 112, 125-158	2.1	207
65	Participation in auctions. <i>Games and Economic Behavior</i> , 2007 , 60, 75-103	1.1	14

64	Convex Approximations of Chance Constrained Programs. <i>SIAM Journal on Optimization</i> , 2007 , 17, 969-996		592
63	Scenario Approximations of Chance Constraints 2006 , 3-47		75
62	Foreword: special issue on robust optimization. <i>Mathematical Programming</i> , 2006 , 107, 1-3	2.1	21
61	Extending Scope of Robust Optimization: Comprehensive Robust Counterparts of Uncertain Problems. <i>Mathematical Programming</i> , 2006 , 107, 63-89	2.1	115
60	On Complexity of Stochastic Programming Problems 2005 , 111-146		113
59	. <i>IEEE Transactions on Signal Processing</i> , 2005 , 53, 168-181	4.8	141
58	Line-free primal-dual path-following and potential-reduction polynomial time interior-point methods. <i>Mathematical Programming</i> , 2005 , 102, 261-294	2.1	9
57	Non-euclidean restricted memory level method for large-scale convex optimization. <i>Mathematical Programming</i> , 2005 , 102, 407-456	2.1	55
56	Retailer-Supplier Flexible Commitments Contracts: A Robust Optimization Approach. <i>Manufacturing and Service Operations Management</i> , 2005 , 7, 248-271	4.6	200
55	Adjustable robust solutions of uncertain linear programs. <i>Mathematical Programming</i> , 2004 , 99, 351-376	2.1	863
54	. <i>IEEE Transactions on Signal Processing</i> , 2004 , 52, 2177-2188	4.8	52
53	Prox-Method with Rate of Convergence $O(1/t)$ for Variational Inequalities with Lipschitz Continuous Monotone Operators and Smooth Convex-Concave Saddle Point Problems. <i>SIAM Journal on Optimization</i> , 2004 , 15, 229-251	2	263
52	Extended Matrix Cube Theorems with Applications to \mathbb{H} -Theory in Control. <i>Mathematics of Operations Research</i> , 2003 , 28, 497-523	1.5	26
51	On sparse representation in pairs of bases. <i>IEEE Transactions on Information Theory</i> , 2003 , 49, 1579-1581	2.8	89
50	Robust Dissipativity of Interval Uncertain Linear Systems. <i>SIAM Journal on Control and Optimization</i> , 2003 , 41, 1661-1695	1.9	9
49	On Approximate Robust Counterparts of Uncertain Semidefinite and Conic Quadratic Programs. <i>IFIP Advances in Information and Communication Technology</i> , 2003 , 1-22	0.5	2
48	On nonparametric tests of positivity/monotonicity/convexity. <i>Annals of Statistics</i> , 2002 , 30, 498	3.2	19
47	Robust optimization \square methodology and applications. <i>Mathematical Programming</i> , 2002 , 92, 453-480	2.1	806

46	On Tractable Approximations of Uncertain Linear Matrix Inequalities Affected by Interval Uncertainty. <i>SIAM Journal on Optimization</i> , 2002 , 12, 811-833	2	110
45	Robust Solutions of Uncertain Quadratic and Conic-Quadratic Problems. <i>SIAM Journal on Optimization</i> , 2002 , 13, 535-560	2	107
44	The design and implementation of COSEM, an iterative algorithm for fully 3-D listmode data. <i>IEEE Transactions on Medical Imaging</i> , 2001 , 20, 633-42	11.7	46
43	The Ordered Subsets Mirror Descent Optimization Method with Applications to Tomography. <i>SIAM Journal on Optimization</i> , 2001 , 12, 79-108	2	57
42	On Polyhedral Approximations of the Second-Order Cone. <i>Mathematics of Operations Research</i> , 2001 , 26, 193-205	1.5	210
41	Lectures on Modern Convex Optimization 2001 ,		1322
40	Cascading In an approach to robust material optimization. <i>Computers and Structures</i> , 2000 , 76, 431-442	4.5	19
39	Optimal Design of Trusses Under a Nonconvex Global Buckling Constraint. <i>Optimization and Engineering</i> , 2000 , 1, 189-213	2.1	59
38	Robust solutions of Linear Programming problems contaminated with uncertain data. <i>Mathematical Programming</i> , 2000 , 88, 411-424	2.1	970
37	Functional aggregation for nonparametric regression. <i>Annals of Statistics</i> , 2000 , 28, 681	3.2	88
36	Estimating functionals, II. <i>Lecture Notes in Mathematics</i> , 2000 , 258-277	0.4	
35	Free Material Design via Semidefinite Programming: The Multiload Case with Contact Conditions. <i>SIAM Review</i> , 2000 , 42, 695-715	7.4	13
34	Robust Modeling of Multi-Stage Portfolio Problems. <i>Applied Optimization</i> , 2000 , 303-328		51
33	Robustness. <i>Profiles in Operations Research</i> , 2000 , 139-162	1	24
32	On complexity of matrix scaling. <i>Linear Algebra and Its Applications</i> , 1999 , 302-303, 435-460	0.9	13
31	Robust solutions of uncertain linear programs. <i>Operations Research Letters</i> , 1999 , 25, 1-13	1	1140
30	On estimation of the L r norm of a regression function. <i>Probability Theory and Related Fields</i> , 1999 , 113, 221-253	1.4	32
29	On maximization of quadratic form over intersection of ellipsoids with common center. <i>Mathematical Programming</i> , 1999 , 86, 463-473	2.1	90

28	Free Material Design via Semidefinite Programming: The Multiload Case with Contact Conditions. <i>SIAM Journal on Optimization</i> , 1999 , 9, 813-832	2	39
27	On self-concordant convex-concave functions. <i>Optimization Methods and Software</i> , 1999 , 11, 303-384	1.3	4
26	Robust Convex Optimization. <i>Mathematics of Operations Research</i> , 1998 , 23, 769-805	1.5	1531
25	Multi-Parameter Surfaces of Analytic Centers and Long-Step Surface-Following Interior Point Methods. <i>Mathematics of Operations Research</i> , 1998 , 23, 1-38	1.5	7
24	Robust Truss Topology Design via Semidefinite Programming. <i>SIAM Journal on Optimization</i> , 1997 , 7, 991-1016	2	261
23	Adaptive de-noising of signals satisfying differential inequalities. <i>IEEE Transactions on Information Theory</i> , 1997 , 43, 872-889	2.8	18
22	The projective method for solving linear matrix inequalities. <i>Mathematical Programming</i> , 1997 , 77, 163-190		31
21	The long-step method of analytic centers for fractional problems. <i>Mathematical Programming</i> , 1997 , 77, 191-224	2.1	5
20	On polynomiality of the method of analytic centers for fractional problems. <i>Mathematical Programming</i> , 1996 , 73, 175-198	2.1	5
19	New variants of bundle methods. <i>Mathematical Programming</i> , 1995 , 69, 111-147	2.1	221
18	An interior-point method for generalized linear-fractional programming. <i>Mathematical Programming</i> , 1995 , 69, 177-204	2.1	39
17	On Parallel Complexity of Nonsmooth Convex Optimization. <i>Journal of Complexity</i> , 1994 , 10, 451-463	1.2	4
16	A network flow algorithm for just-in-time project scheduling. <i>European Journal of Operational Research</i> , 1994 , 79, 167-175	5.6	16
15	Potential Reduction Polynomial Time Method for Truss Topology Design. <i>SIAM Journal on Optimization</i> , 1994 , 4, 596-612	2	27
14	Interior-Point Polynomial Algorithms in Convex Programming 1994 ,		2065
13	Several NP-hard problems arising in robust stability analysis. <i>Mathematics of Control, Signals, and Systems</i> , 1993 , 6, 99-105	1.3	168
12	An Interior Point Algorithm for Truss Topology Design 1993 , 55-69		8
11	On Necessary Conditions for Efficient Estimation of Functionals of a Nonparametric Signal in White Noise. <i>Theory of Probability and Its Applications</i> , 1991 , 35, 94-103	0.5	5

10	Some Problems on Nonparametric Estimation in Gaussian White Noise. <i>Theory of Probability and Its Applications</i> , 1987 , 31, 391-406	0.5	41
9	The regularizing properties of the adjoint gradient method in ill-posed problems. <i>USSR Computational Mathematics and Mathematical Physics</i> , 1986 , 26, 7-16		59
8	Optimal methods of smooth convex minimization. <i>USSR Computational Mathematics and Mathematical Physics</i> , 1985 , 25, 21-30		20
7	Problem Complexity and Method Efficiency in Optimization. <i>Journal of the Operational Research Society</i> , 1984 , 35, 455-455	2	7
6	Probability-constrained approach to estimation of random Gaussian parameters		4
5	On tractable approximations of randomly perturbed convex constraints		16
4			32
3			232
2	Advances in convex optimization: conic programming 413-444		19
1	On well-structured convex-concave saddle point problems and variational inequalities with monotone operators. <i>Optimization Methods and Software</i> , 1-36	1.3	1