

Amir Beck

List of Publications by Year in descending order

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64
papers

14,958
citations

230014

27
h-index

162838

57
g-index

66
all docs

66
docs citations

66
times ranked

12640
citing authors

#	ARTICLE	IF	CITATIONS
1	Sparse regularization via bidualization. <i>Journal of Global Optimization</i> , 2022, 82, 463-482.	1.1	0
2	New results on multi-dimensional linear discriminant analysis. <i>Operations Research Letters</i> , 2022, 50, 1-7.	0.5	1
3	An Accelerated Coordinate Gradient Descent Algorithm for Non-separable Composite Optimization. <i>Journal of Optimization Theory and Applications</i> , 2022, 193, 219-246.	0.8	3
4	Dual Randomized Coordinate Descent Method for Solving a Class of Nonconvex Problems. <i>SIAM Journal on Optimization</i> , 2021, 31, 1877-1896.	1.2	1
5	On the Convergence to Stationary Points of Deterministic and Randomized Feasible Descent Directions Methods. <i>SIAM Journal on Optimization</i> , 2020, 30, 56-79.	1.2	9
6	Optimization problems involving group sparsity terms. <i>Mathematical Programming</i> , 2019, 178, 39-67.	1.6	26
7	FOM – a MATLAB toolbox of first-order methods for solving convex optimization problems. <i>Optimization Methods and Software</i> , 2019, 34, 172-193.	1.6	17
8	Proximal Mapping for Symmetric Penalty and Sparsity. <i>SIAM Journal on Optimization</i> , 2018, 28, 496-527.	1.2	21
9	Globally solving a class of optimal power flow problems in radial networks by tree reduction. <i>Journal of Global Optimization</i> , 2018, 72, 373-402.	1.1	2
10	Primal and dual predicted decrease approximation methods. <i>Mathematical Programming</i> , 2018, 167, 37-73.	1.6	4
11	Globally Solving the Trust Region Subproblem Using Simple First-Order Methods. <i>SIAM Journal on Optimization</i> , 2018, 28, 1951-1967.	1.2	15
12	A branch and bound algorithm for nonconvex quadratic optimization with ball and linear constraints. <i>Journal of Global Optimization</i> , 2017, 69, 309-342.	1.1	16
13	Linearly convergent away-step conditional gradient for non-strongly convex functions. <i>Mathematical Programming</i> , 2017, 164, 1-27.	1.6	30
14	The Sparse Principal Component Analysis Problem: Optimality Conditions and Algorithms. <i>Journal of Optimization Theory and Applications</i> , 2016, 170, 119-143.	0.8	15
15	An Alternating Semiproximal Method for Nonconvex Regularized Structured Total Least Squares Problems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2016, 37, 1129-1150.	0.7	9
16	On the Minimization Over Sparse Symmetric Sets: Projections, Optimality Conditions, and Algorithms. <i>Mathematics of Operations Research</i> , 2016, 41, 196-223.	0.8	33
17	Rate of convergence analysis of dual-based variables decomposition methods for strongly convex problems. <i>Operations Research Letters</i> , 2016, 44, 61-66.	0.5	0
18	On the Convergence of Alternating Minimization for Convex Programming with Applications to Iteratively Reweighted Least Squares and Decomposition Schemes. <i>SIAM Journal on Optimization</i> , 2015, 25, 185-209.	1.2	139

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19	The Cyclic Block Conditional Gradient Method for Convex Optimization Problems. SIAM Journal on Optimization, 2015, 25, 2024-2049.	1.2	14
20	Weiszfeld's Method: Old and New Results. Journal of Optimization Theory and Applications, 2015, 164, 1-40.	0.8	60
21	Smoothing and Decomposition for Analysis Sparse Recovery. IEEE Transactions on Signal Processing, 2014, 62, 1762-1774.	3.2	73
22	GESPAR: Efficient Phase Retrieval of Sparse Signals. IEEE Transactions on Signal Processing, 2014, 62, 928-938.	3.2	249
23	The 2-Coordinate Descent Method for Solving Double-Sided Simplex Constrained Minimization Problems. Journal of Optimization Theory and Applications, 2014, 162, 892-919.	0.8	18
24	A fast dual proximal gradient algorithm for convex minimization and applications. Operations Research Letters, 2014, 42, 1-6.	0.5	64
25	A first order method for finding minimal norm-like solutions of convex optimization problems. Mathematical Programming, 2014, 147, 25-46.	1.6	27
26	An ϵ -Gradient Method for Network Resource Allocation Problems. IEEE Transactions on Control of Network Systems, 2014, 1, 64-73.	2.4	139
27	Sparsity Constrained Nonlinear Optimization: Optimality Conditions and Algorithms. SIAM Journal on Optimization, 2013, 23, 1480-1509.	1.2	191
28	On the Convergence of Block Coordinate Descent Type Methods. SIAM Journal on Optimization, 2013, 23, 2037-2060.	1.2	309
29	Sparse signal recovery from nonlinear measurements. , 2013, , .		4
30	Smoothing and First Order Methods: A Unified Framework. SIAM Journal on Optimization, 2012, 22, 557-580.	1.2	189
31	On the Solution of the GPS Localization and Circle Fitting Problems. SIAM Journal on Optimization, 2012, 22, 108-134.	1.2	17
32	Efficient phase retrieval of sparse signals. , 2012, , .		3
33	A Sequential Ascending Parameter Method for Solving Constrained Minimization Problems. SIAM Journal on Optimization, 2012, 22, 244-260.	1.2	1
34	An improved ellipsoid method for solving convex differentiable optimization problems. Operations Research Letters, 2012, 40, 541-545.	0.5	4
35	A new semidefinite programming relaxation scheme for a class of quadratic matrix problems. Operations Research Letters, 2012, 40, 298-302.	0.5	10
36	A sequential parametric convex approximation method with applications to nonconvex truss topology design problems. Journal of Global Optimization, 2010, 47, 29-51.	1.1	445

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37	The CoMirror algorithm for solving nonsmooth constrained convex problems. <i>Operations Research Letters</i> , 2010, 38, 493-498.	0.5	24
38	Structured Total Maximum Likelihood: An Alternative to Structured Total Least Squares. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2010, 31, 2623-2649.	0.7	12
39	A convex optimization approach for minimizing the ratio of indefinite quadratic functions over an ellipsoid. <i>Mathematical Programming</i> , 2009, 118, 13-35.	1.6	38
40	Duality in robust optimization: Primal worst equals dual best. <i>Operations Research Letters</i> , 2009, 37, 1-6.	0.5	150
41	Fast Gradient-Based Algorithms for Constrained Total Variation Image Denoising and Deblurring Problems. <i>IEEE Transactions on Image Processing</i> , 2009, 18, 2419-2434.	6.0	1,693
42	A Fast Iterative Shrinkage-Thresholding Algorithm for Linear Inverse Problems. <i>SIAM Journal on Imaging Sciences</i> , 2009, 2, 183-202.	1.3	7,850
43	A fast Iterative Shrinkage-Thresholding Algorithm with application to wavelet-based image deblurring. , 2009, , .		121
44	A Minimax Chebyshev Estimator for Bounded Error Estimation. <i>IEEE Transactions on Signal Processing</i> , 2008, 56, 1388-1397.	3.2	44
45	Exact and Approximate Solutions of Source Localization Problems. <i>IEEE Transactions on Signal Processing</i> , 2008, 56, 1770-1778.	3.2	467
46	A Fast Method for Finding the Global Solution of the Regularized Structured Total Least Squares Problem for Image Deblurring. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2008, 30, 419-443.	0.7	10
47	Iterative Minimization Schemes for Solving the Single Source Localization Problem. <i>SIAM Journal on Optimization</i> , 2008, 19, 1397-1416.	1.2	41
48	Regularization in Regression with Bounded Noise: A Chebyshev Center Approach. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2007, 29, 606-625.	0.7	38
49	Quadratic Matrix Programming. <i>SIAM Journal on Optimization</i> , 2007, 17, 1224-1238.	1.2	59
50	Mean-Squared Error Estimation for Linear Systems with Block Circulant Uncertainty. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2007, 29, 712-730.	0.7	13
51	Doubly Constrained Robust Capon Beamformer With Ellipsoidal Uncertainty Sets. <i>IEEE Transactions on Signal Processing</i> , 2007, 55, 753-758.	3.2	51
52	The matrix-restricted total least-squares problem. <i>Signal Processing</i> , 2007, 87, 2303-2312.	2.1	13
53	On the convexity of a class of quadratic mappings and its application to the problem of finding the smallest ball enclosing a given intersection of balls. <i>Journal of Global Optimization</i> , 2007, 39, 113-126.	1.1	25
54	Strong Duality in Nonconvex Quadratic Optimization with Two Quadratic Constraints. <i>SIAM Journal on Optimization</i> , 2006, 17, 844-860.	1.2	237

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55	On the Solution of the Tikhonov Regularization of the Total Least Squares Problem. SIAM Journal on Optimization, 2006, 17, 98-118.	1.2	219
56	Finding a Global Optimal Solution for a Quadratically Constrained Fractional Quadratic Problem with Applications to the Regularized Total Least Squares. SIAM Journal on Matrix Analysis and Applications, 2006, 28, 425-445.	0.7	74
57	Robust Mean-Squared Error Estimation of Multiple Signals in Linear Systems Affected by Model and Noise Uncertainties. Mathematical Programming, 2006, 107, 155-187.	1.6	23
58	A Linearly Convergent Dual-Based Gradient Projection Algorithm for Quadratically Constrained Convex Minimization. Mathematics of Operations Research, 2006, 31, 398-417.	0.8	7
59	A Global Solution for the Structured Total Least Squares Problem with Block Circulant Matrices. SIAM Journal on Matrix Analysis and Applications, 2005, 27, 238-255.	0.7	22
60	A conditional gradient method with linear rate of convergence for solving convex linear systems. Mathematical Methods of Operations Research, 2004, 59, 235-247.	0.4	37
61	Mirror descent and nonlinear projected subgradient methods for convex optimization. Operations Research Letters, 2003, 31, 167-175.	0.5	594
62	Convergence rate analysis and error bounds for projection algorithms in convex feasibility problems. Optimization Methods and Software, 2003, 18, 377-394.	1.6	19
63	A probabilistic result for the max-cut problem on random graphs. Operations Research Letters, 2000, 27, 209-214.	0.5	0
64	Global Optimality Conditions for Quadratic Optimization Problems with Binary Constraints. SIAM Journal on Optimization, 2000, 11, 179-188.	1.2	87