

Ya-Xiang Yuan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10495858/publications.pdf>

Version: 2024-02-01

43
papers

1,827
citations

393982

19
h-index

288905

40
g-index

47
all docs

47
docs citations

47
times ranked

973
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Convergence of a Class of Quasi-Newton Methods on Convex Problems. SIAM Journal on Numerical Analysis, 1987, 24, 1171-1190.	1.1	273
2	On the Quadratic Convergence of the Levenberg-Marquardt Method without Nonsingularity Assumption. Computing (Vienna/New York), 2005, 74, 23-39.	3.2	195
3	Recent advances in trust region algorithms. Mathematical Programming, 2015, 151, 249-281.	1.6	194
4	A Modified BFGS Algorithm for Unconstrained Optimization. IMA Journal of Numerical Analysis, 1991, 11, 325-332.	1.5	164
5	Combining Trust Region and Line Search Techniques. Applied Optimization, 1998, , 153-175.	0.4	107
6	Modified Two-Point Step-size Gradient Methods for Unconstrained Optimization. Computational Optimization and Applications, 2002, 22, 103-109.	0.9	96
7	Optimality Conditions for the Minimization of a Quadratic with Two Quadratic Constraints. SIAM Journal on Optimization, 1997, 7, 579-594.	1.2	81
8	A Brief Introduction to Manifold Optimization. Journal of the Operations Research Society of China, 2020, 8, 199-248.	0.9	81
9	On the convergence of a new trust region algorithm. Numerische Mathematik, 1995, 70, 515-539.	0.9	70
10	Recent advances in numerical methods for nonlinear equations and nonlinear least squares. Numerical Algebra, Control and Optimization, 2011, 1, 15-34.	1.0	67
11	Analysis of a self-scaling quasi-Newton method. Mathematical Programming, 1993, 61, 19-37.	1.6	45
12	On the convergence and worst-case complexity of trust-region and regularization methods for unconstrained optimization. Mathematical Programming, 2015, 152, 491-520.	1.6	45
13	Subspace methods for large scale nonlinear equations and nonlinear least squares. Optimization and Engineering, 2009, 10, 207-218.	1.3	42
14	A subspace implementation of quasi-Newton trust region methods for unconstrained optimization. Numerische Mathematik, 2006, 104, 241-269.	0.9	35
15	A Conic Trust-Region Method for Nonlinearly Constrained Optimization. Annals of Operations Research, 2001, 103, 175-191.	2.6	27
16	A new linearization method for quadratic assignment problems. Optimization Methods and Software, 2006, 21, 805-818.	1.6	27
17	A Predictor-Corrector Algorithm for QSDP Combining Dikin-Type and Newton Centering Steps. Annals of Operations Research, 2001, 103, 115-133.	2.6	26
18	On efficiently combining limited-memory and trust-region techniques. Mathematical Programming Computation, 2017, 9, 101-134.	3.2	25

#	ARTICLE	IF	CITATIONS
19	On Local Solutions of the Celis–Dennis–Tapia Subproblem. <i>SIAM Journal on Optimization</i> , 2000, 10, 359-383.	1.2	22
20	A derivative-free trust-region algorithm for composite nonsmooth optimization. <i>Computational and Applied Mathematics</i> , 2016, 35, 475-499.	1.3	20
21	Subspace Techniques for Nonlinear Optimization. <i>Series in Contemporary Applied Mathematics</i> , 2007, , 206-218.	0.8	19
22	Nonlinear Stepsize Control Algorithms: Complexity Bounds for First- and Second-Order Optimality. <i>Journal of Optimization Theory and Applications</i> , 2016, 171, 980-997.	0.8	17
23	Stochastic proximal quasi-Newton methods for non-convex composite optimization. <i>Optimization Methods and Software</i> , 2019, 34, 922-948.	1.6	16
24	A note on quadratic forms. <i>Mathematical Programming</i> , 1999, 86, 187-197.	1.6	15
25	Global convergence of the method of shortest residuals. <i>Numerische Mathematik</i> , 1999, 83, 581-598.	0.9	14
26	A trust region method based on a new affine scaling technique for simple bounded optimization. <i>Optimization Methods and Software</i> , 2013, 28, 871-888.	1.6	14
27	On the complexity of an augmented Lagrangian method for nonconvex optimization. <i>IMA Journal of Numerical Analysis</i> , 2021, 41, 1546-1568.	1.5	11
28	A class of smooth exact penalty function methods for optimization problems with orthogonality constraints. <i>Optimization Methods and Software</i> , 2022, 37, 1205-1241.	1.6	10
29	Theory and application of p-regularized subproblems for $p > 2$. <i>Optimization Methods and Software</i> , 2017, 32, 1059-1077.	1.6	9
30	A new piecewise quadratic approximation approach for L0 norm minimization problem. <i>Science China Mathematics</i> , 2019, 62, 185-204.	0.8	9
31	A Subspace Version of the Powell–Yuan Trust-Region Algorithm for Equality Constrained Optimization. <i>Journal of the Operations Research Society of China</i> , 2013, 1, 425-451.	0.9	8
32	On self-dual update formulae in the Broyden family. <i>Optimization Methods and Software</i> , 1992, 1, 117-127.	1.6	4
33	On the Regularity of a Trust Region-CG Algorithm for Nonlinear Ill-posed Inverse Problems. , 2002, , ,		4
34	A Cone Constrained Convex Program: Structure and Algorithms. <i>Journal of the Operations Research Society of China</i> , 2013, 1, 37-53.	0.9	4
35	Convergence properties of a restricted Newton-type method for generalized equations with metrically regular mappings. <i>Applicable Analysis</i> , 2017, , 1-21.	0.6	4
36	An interior-point trust-region polynomial algorithm for convex quadratic minimization subject to general convex constraints. <i>Optimization Methods and Software</i> , 2008, 23, 251-258.	1.6	3

#	ARTICLE	IF	CITATIONS
37	A short note on the Q-linear convergence of the steepest descent method. Mathematical Programming, 2010, 123, 339-343.	1.6	3
38	A Parallel Line Search Subspace Correction Method for Composite Convex Optimization. Journal of the Operations Research Society of China, 2015, 3, 163-187.	0.9	2
39	Metrically regular mappings and its application to convergence analysis of a confined Newton-type method for nonsmooth generalized equations. Science China Mathematics, 2020, 63, 39-60.	0.8	2
40	Journal of the Operations Research Society of China. Journal of the Operations Research Society of China, 2013, 1, 1-2.	0.9	1
41	A Counter-Example to a Conjecture of Ben-Tal, Nemirovski and Roos. Journal of the Operations Research Society of China, 2013, 1, 155-157.	0.9	1
42	Prefaceâ€“Special Issue on Mathematical Optimization: Past, Present and Future. Journal of the Operations Research Society of China, 2020, 8, 197-198.	0.9	0
43	Variable Metric Algorithms. , 2015, , 1515-1519.		0