Geovani N Grapiglia

List of Publications by Year
in descending order

19 papers	231 citations	1163117 8 h-index	1058476 14 g-index
19 all docs	19 docs citations	19 times ranked	112 citing authors

#	Article	IF	Citations
1	On the convergence and worst-case complexity of trust-region and regularization methods for unconstrained optimization. Mathematical Programming, 2015, 152, 491-520.	2.4	45
2	Regularized Newton Methods for Minimizing Functions with Hölder Continuous Hessians. SIAM Journal on Optimization, 2017, 27, 478-506.	2.0	34
3	A derivative-free trust-region algorithm for composite nonsmooth optimization. Computational and Applied Mathematics, 2016, 35, 475-499.	1.3	20
4	Accelerated Regularized Newton Methods for Minimizing Composite Convex Functions. SIAM Journal on Optimization, 2019, 29, 77-99.	2.0	18
5	Nonlinear Stepsize Control Algorithms: Complexity Bounds for First- and Second-Order Optimality. Journal of Optimization Theory and Applications, 2016, 171, 980-997.	1.5	17
6	On the worst-case evaluation complexity of non-monotone line search algorithms. Computational Optimization and Applications, 2017, 68, 555-577.	1.6	16
7	Tensor Methods for Minimizing Convex Functions with Hölder Continuous Higher-Order Derivatives. SIAM Journal on Optimization, 2020, 30, 2750-2779.	2.0	13
8	On the complexity of an augmented Lagrangian method for nonconvex optimization. IMA Journal of Numerical Analysis, 2021, 41, 1546-1568.	2.9	11
9	On inexact solution of auxiliary problems in tensor methods for convex optimization. Optimization Methods and Software, 2021, 36, 145-170.	2.4	10
10	On the worst-case complexity of nonlinear stepsize control algorithms for convex unconstrained optimization. Optimization Methods and Software, 2016, 31, 591-604.	2.4	9
11	A Subspace Version of the Powell–Yuan Trust-Region Algorithm for Equality Constrained Optimization. Journal of the Operations Research Society of China, 2013, 1, 425-451.	1.4	8
12	Improved optimization methods for image registration problems. Numerical Algorithms, 2019, 80, 305-336.	1.9	8
13	Tensor methods for finding approximate stationary points of convex functions. Optimization Methods and Software, 2022, 37, 605-638.	2.4	8
14	An adaptive trust-region method without function evaluations. Computational Optimization and Applications, 2022, 82, 31-60.	1.6	5
15	Quadratic regularization methods with finite-difference gradient approximations. Computational Optimization and Applications, 2023, 85, 683-703.	1.6	4
16	A generalized worst-case complexity analysis for non-monotone line searches. Numerical Algorithms, 2021, 87, 779-796.	1.9	2
17	A cubic regularization of Newton's method with finite difference Hessian approximations. Numerical Algorithms, 2022, 90, 607-630.	1.9	2
18	A subspace version of the Wang–Yuan Augmented Lagrangian-Trust Region method for equality constrained optimization. Applied Mathematics and Computation, 2020, 387, 124861.	2.2	1

#	Article	IF	Citations
19	Worst-case evaluation complexity of derivative-free nonmonotone line search methods for solving nonlinear systems of equations. Computational and Applied Mathematics, 2021, 40, 1.	2.2	0