

Stefania Bellavia

List of Publications by Year in descending order

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40
papers

636
citations

687363

13
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610901

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40
all docs

40
docs citations

40
times ranked

353
citing authors

#	ARTICLE	IF	CITATIONS
1	Stochastic analysis of an adaptive cubic regularization method under inexact gradient evaluations and dynamic Hessian accuracy. <i>Optimization</i> , 2022, 71, 227-261.	1.7	10
2	Adaptive cubic regularization methods with dynamic inexact Hessian information and applications to finite-sum minimization. <i>IMA Journal of Numerical Analysis</i> , 2021, 41, 764-799.	2.9	17
3	Subsampled First-Order Optimization Methods with Applications in Imaging. , 2021, , 1-35.		1
4	A Relaxed Interior Point Method for Low-Rank Semidefinite Programming Problems with Applications to Matrix Completion. <i>Journal of Scientific Computing</i> , 2021, 89, 46.	2.3	4
5	Quadratic and Cubic Regularisation Methods with Inexact function and Random Derivatives for Finite-Sum Minimisation. , 2021, , .		1
6	Subsampled inexact Newton methods for minimizing large sums of convex functions. <i>IMA Journal of Numerical Analysis</i> , 2020, 40, 2309-2341.	2.9	14
7	An inexact non stationary Tikhonov procedure for large-scale nonlinear ill-posed problems. <i>Inverse Problems</i> , 2020, 36, 095007.	2.0	1
8	Inexact restoration with subsampled trust-region methods for finite-sum minimization. <i>Computational Optimization and Applications</i> , 2020, 76, 701-736.	1.6	12
9	Sequential linear programming and particle swarm optimization for the optimization of energy districts. <i>Engineering Optimization</i> , 2019, 51, 84-100.	2.6	9
10	Adaptive Regularization Algorithms with Inexact Evaluations for Nonconvex Optimization. <i>SIAM Journal on Optimization</i> , 2019, 29, 2881-2915.	2.0	25
11	An inexact dual logarithmic barrier method for solving sparse semidefinite programs. <i>Mathematical Programming</i> , 2019, 178, 109-143.	2.4	8
12	A Levenberg-Marquardt method for large nonlinear least-squares problems with dynamic accuracy in functions and gradients. <i>Numerische Mathematik</i> , 2018, 140, 791-825.	1.9	32
13	On an Elliptical Trust-Region Procedure for Ill-Posed Nonlinear Least-Squares Problems. <i>Journal of Optimization Theory and Applications</i> , 2018, 178, 824-859.	1.5	5
14	Regularized Quadratic Penalty Methods for Shape from Shading. <i>Mediterranean Journal of Mathematics</i> , 2017, 14, 1.	0.8	0
15	On an adaptive regularization for ill-posed nonlinear systems and its trust-region implementation. <i>Computational Optimization and Applications</i> , 2016, 64, 1-30.	1.6	8
16	On the update of constraint preconditioners for regularized KKT systems. <i>Computational Optimization and Applications</i> , 2016, 65, 339-360.	1.6	7
17	Strong local convergence properties of adaptive regularized methods for nonlinear least squares. <i>IMA Journal of Numerical Analysis</i> , 2015, 35, 947-968.	2.9	13
18	On affine-scaling inexact dogleg methods for bound-constrained nonlinear systems. <i>Optimization Methods and Software</i> , 2015, 30, 276-300.	2.4	8

#	ARTICLE	IF	CITATIONS
19	Updating Constraint Preconditioners for KKT Systems in Quadratic Programming Via Low-Rank Corrections. <i>SIAM Journal on Optimization</i> , 2015, 25, 1787-1808.	2.0	12
20	New updates of incomplete LU factorizations and applications to large nonlinear systems. <i>Optimization Methods and Software</i> , 2014, 29, 321-340.	2.4	13
21	PRECONDITIONING ISSUES IN THE NUMERICAL SOLUTION OF NONLINEAR EQUATIONS AND NONLINEAR LEAST SQUARES. <i>Pesquisa Operacional</i> , 2014, 34, 421-445.	0.4	0
22	A Matrix-Free Preconditioner for Sparse Symmetric Positive Definite Systems and Least-Squares Problems. <i>SIAM Journal of Scientific Computing</i> , 2013, 35, A192-A211.	2.8	24
23	A Preconditioning Framework for Sequences of Diagonally Modified Linear Systems Arising in Optimization. <i>SIAM Journal on Numerical Analysis</i> , 2012, 50, 3280-3302.	2.3	19
24	Constrained Dogleg methods for nonlinear systems with simple bounds. <i>Computational Optimization and Applications</i> , 2012, 53, 771-794.	1.6	19
25	Efficient Preconditioner Updates for Shifted Linear Systems. <i>SIAM Journal of Scientific Computing</i> , 2011, 33, 1785-1809.	2.8	26
26	Nonsymmetric Preconditioner Updates in Newton-Krylov Methods for Nonlinear Systems. <i>SIAM Journal of Scientific Computing</i> , 2011, 33, 2595-2619.	2.8	28
27	Computational experience with numerical methods for nonnegative least-squares problems. <i>Numerical Linear Algebra With Applications</i> , 2011, 18, 363-385.	1.6	2
28	Inexact Newton methods for model simulation. <i>International Journal of Computer Mathematics</i> , 2011, 88, 2969-2987.	1.8	1
29	Numerical solution of KKT systems in PDE-constrained optimization problems via the affine scaling trust-region approach. <i>International Journal of Computer Mathematics</i> , 2009, 86, 2122-2142.	1.8	0
30	Regularization and preconditioning of KKT systems arising in nonnegative least-squares problems. <i>Numerical Linear Algebra With Applications</i> , 2009, 16, 39-61.	1.6	6
31	Globalization strategies for Newton-Krylov methods for stabilized FEM discretization of Navier-Stokes equations. <i>Journal of Computational Physics</i> , 2007, 226, 2317-2340.	3.8	10
32	Subspace Trust-Region Methods for Large Bound-Constrained Nonlinear Equations. <i>SIAM Journal on Numerical Analysis</i> , 2006, 44, 1535-1555.	2.3	29
33	An interior point Newton-like method for non-negative least-squares problems with degenerate solution. <i>Numerical Linear Algebra With Applications</i> , 2006, 13, 825-846.	1.6	36
34	An interior global method for nonlinear systems with simple bounds. <i>Optimization Methods and Software</i> , 2005, 20, 453-474.	2.4	19
35	STRSCNE: A Scaled Trust-Region Solver for Constrained Nonlinear Equations. <i>Computational Optimization and Applications</i> , 2004, 28, 31-50.	1.6	51
36	Convergence Analysis of an Inexact Infeasible Interior Point Method for Semidefinite Programming. <i>Computational Optimization and Applications</i> , 2004, 29, 289-313.	1.6	4

#	ARTICLE	IF	CITATIONS
37	Global convergence enhancement of classical linesearch interior point methods for MCPs. Journal of Computational and Applied Mathematics, 2003, 151, 171-199.	2.0	4
38	An affine scaling trust-region approach to bound-constrained nonlinear systems. Applied Numerical Mathematics, 2003, 44, 257-280.	2.1	87
39	A Globally Convergent Newton-GMRES Subspace Method for Systems of Nonlinear Equations. SIAM Journal of Scientific Computing, 2001, 23, 940-960.	2.8	64
40	An inexact interior point method for monotone NCP. Optimization Methods and Software, 1999, 11, 211-241.	2.4	7