Benedetta Morini

List of Publications by Year
in descending order

48 papers	**967** citations	394421 **19** h-index	454955 **30** g-index
48 all docs	**48** docs citations	**48** times ranked	**492** citing authors

#	ARTICLE	IF	CITATIONS
1	Solving Nonlinear Systems of Equations Via Spectral Residual Methods: Stepsize Selection and Applications. Journal of Scientific Computing, 2022, 90, 1.	2.3	6
2	Adaptive cubic regularization methods with dynamic inexact Hessian information and applications to finite-sum minimization. IMA Journal of Numerical Analysis, 2021, 41, 764-799.	2.9	17
3	Subsampled First-Order Optimization Methods with Applications in Imaging. , 2021, , 1-35.		1
4	Quadratic and Cubic Regularisation Methods with Inexact function and Random Derivatives for Finite-Sum Minimisation. , 2021, , .		1
5	Inexact restoration with subsampled trust-region methods for finite-sum minimization. Computational Optimization and Applications, 2020, 76, 701-736.	1.6	12
6	On conditioning of KKT systems in inexact interior point methods. AIP Conference Proceedings, 2019, , .	0.4	0
7	Adaptive Regularization Algorithms with Inexact Evaluations for Nonconvex Optimization. SIAM Journal on Optimization, 2019, 29, 2881-2915.	2.0	25
8	Quasi-Newton methods for constrained nonlinear systems: complexity analysis and applications. Computational Optimization and Applications, 2018, 71, 147-170.	1.6	21
9	On Partial Cholesky Factorization and a Variant of Quasi-Newton Preconditioners for Symmetric Positive Definite Matrices. Axioms, 2018, 7, 44.	1.9	1
10	On preconditioner updates for sequences of saddle-point linear systems. Communications in Applied and Industrial Mathematics, 2018, 9, 35-41.	0.3	1
11	A comparison of reduced and unreduced KKT systems arising from interior point methods. Computational Optimization and Applications, 2017, 68, 1-27.	1.6	20
12	Stability and Accuracy of Inexact Interior Point Methods for Convex Quadratic Programming. Journal of Optimization Theory and Applications, 2017, 175, 450-477.	1.5	6
13	Approximate norm descent methods for constrained nonlinear systems. Mathematics of Computation, 2017, 87, 1327-1351.	2.1	18
14	Spectral estimates for unreduced symmetric KKT systems arising from Interior Point methods. Numerical Linear Algebra With Applications, 2016, 23, 776-800.	1.6	17
15	On an adaptive regularization for ill-posed nonlinear systems and its trust-region implementation. Computational Optimization and Applications, 2016, 64, 1-30.	1.6	8
16	On the update of constraint preconditioners for regularized KKT systems. Computational Optimization and Applications, 2016, 65, 339-360.	1.6	7
17	A new modular procedure for industrial plant simulations and its reliable implementation. Energy, 2016, 94, 380-390.	8.8	14
18	Modular Tool for the Simulation of Compressor Trains for Oil and Gas Applications. Energy Procedia, 2015, 82, 546-553.	1.8	2

#	Article	IF	Citations
19	Strong local convergence properties of adaptive regularized methods for nonlinear least squares. IMA Journal of Numerical Analysis, 2015, 35, 947-968.	2.9	13
20	Updating Constraint Preconditioners for KKT Systems in Quadratic Programming Via Low-Rank Corrections. SIAM Journal on Optimization, 2015, 25, 1787-1808.	2.0	12
21	On the use of iterative methods in cubic regularization for unconstrained optimization. Computational Optimization and Applications, 2015, 60, 35-57.	1.6	31
22	New updates of incomplete LU factorizations and applications to large nonlinear systems. Optimization Methods and Software, 2014, 29, 321-340.	2.4	13
23	A Matrix-Free Preconditioner for Sparse Symmetric Positive Definite Systems and Least-Squares Problems. SIAM Journal of Scientific Computing, 2013, 35, A192-A211.	2.8	24
24	A Preconditioning Framework for Sequences of Diagonally Modified Linear Systems Arising in Optimization. SIAM Journal on Numerical Analysis, 2012, 50, 3280-3302.	2.3	19
25	TRESNEI, a Matlab trust-region solver for systems of nonlinear equalities and inequalities. Computational Optimization and Applications, 2012, 51, 27-49.	1.6	29
26	Efficient Preconditioner Updates for Shifted Linear Systems. SIAM Journal of Scientific Computing, 2011, 33, 1785-1809.	2.8	26
27	Nonsymmetric Preconditioner Updates in Newton–Krylov Methods for Nonlinear Systems. SIAM Journal of Scientific Computing, 2011, 33, 2595-2619.	2.8	28
28	Computational experience with numerical methods for nonnegative least-squares problems. Numerical Linear Algebra With Applications, 2011, 18, 363-385.	1.6	2
29	A reduced Newton method for constrained linear least-squares problems. Journal of Computational and Applied Mathematics, 2010, 233, 2200-2212.	2.0	32
30	Quasi Matrix Free Preconditioners in Optimization and Nonlinear Least-Squares. , 2010, , .		0
31	Affine Scaling Methods for Image Deblurring Problems. , 2010, , .		2
32	Convergence of a Regularized Euclidean Residual Algorithm for Nonlinear Least-Squares. SIAM Journal on Numerical Analysis, 2010, 48, 1-29.	2.3	32
33	Regularization and preconditioning of KKT systems arising in nonnegative least–squares problems. Numerical Linear Algebra With Applications, 2009, 16, 39-61.	1.6	6
34	Trust-region quadratic methods for nonlinear systems of mixed equalities and inequalities. Applied Numerical Mathematics, 2009, 59, 859-876.	2.1	39
35	A Gauss–Newton method for solving bound-constrained underdetermined nonlinear systems. Optimization Methods and Software, 2009, 24, 219-235.	2.4	17
36	On the local convergence of an iterative approach for inverse singular value problems. Journal of Computational and Applied Mathematics, 2007, 198, 344-360.	2.0	18

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37	Subspace Trust‑Region Methods for Large Bound‑Constrained Nonlinear Equations. SIAM Journal on Numerical Analysis, 2006, 44, 1535-1555.	2.3	29
38	An interior point Newton-like method for non-negative least-squares problems with degenerate solution. Numerical Linear Algebra With Applications, 2006, 13, 825-846.	1.6	36
39	An interior global method for nonlinear systems with simple bounds. Optimization Methods and Software, 2005, 20, 453-474.	2.4	19
40	An inexact Cayley transform method for inverse eigenvalue problems. Inverse Problems, 2004, 20, 1675-1689.	2.0	35
41	STRSCNE: A Scaled Trust-Region Solver for Constrained Nonlinear Equations. Computational Optimization and Applications, 2004, 28, 31-50.	1.6	51
42	Global convergence enhancement of classical linesearch interior point methods for MCPs. Journal of Computational and Applied Mathematics, 2003, 151, 171-199.	2.0	4
43	An affine scaling trust-region approach to bound-constrained nonlinear systems. Applied Numerical Mathematics, 2003, 44, 257-280.	2.1	87
44	A Globally Convergent Newton-GMRES Subspace Method for Systems of Nonlinear Equations. SIAM Journal of Scientific Computing, 2001, 23, 940-960.	2.8	64
45	Convergence behaviour of inexact Newton methods. Mathematics of Computation, 1999, 68, 1605-1614.	2.1	56
46	On real logarithms of nearby matrices and structured matrix interpolation. Applied Numerical Mathematics, 1999, 29, 145-165.	2.1	8
47	Inexact Methods in the Numerical Solution of Stiff Initial Value Problems. Computing (Vienna/New) Tj ETQq1 1 0.784314 rgBT /Overl	4.8	2
48	Computational Techniques for Real Logarithms of Matrices. SIAM Journal on Matrix Analysis and Applications, 1996, 17, 570-593.	1.4	56