

# Benedetta Morini

## List of Publications by Year in descending order

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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  | An affine scaling trust-region approach to bound-constrained nonlinear systems. <i>Applied Numerical Mathematics</i> , 2003, 44, 257-280.                                     | 2.1 | 87        |
| 2  | A Globally Convergent Newton-GMRES Subspace Method for Systems of Nonlinear Equations. <i>SIAM Journal of Scientific Computing</i> , 2001, 23, 940-960.                       | 2.8 | 64        |
| 3  | Computational Techniques for Real Logarithms of Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1996, 17, 570-593.  | 1.4 | 56        |
| 4  | Convergence behaviour of inexact Newton methods. <i>Mathematics of Computation</i> , 1999, 68, 1605-1614.   | 2.1 | 56        |
| 5  | STRSCNE: A Scaled Trust-Region Solver for Constrained Nonlinear Equations. <i>Computational Optimization and Applications</i> , 2004, 28, 31-50.                              | 1.6 | 51        |
| 6  | Trust-region quadratic methods for nonlinear systems of mixed equalities and inequalities. <i>Applied Numerical Mathematics</i> , 2009, 59, 859-876.                          | 2.1 | 39        |
| 7  | 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        |
| 8  | An inexact Cayley transform method for inverse eigenvalue problems. <i>Inverse Problems</i> , 2004, 20, 1675-1689.  | 2.0 | 35        |
| 9  | A reduced Newton method for constrained linear least-squares problems. <i>Journal of Computational and Applied Mathematics</i> , 2010, 233, 2200-2212.                        | 2.0 | 32        |
| 10 | Convergence of a Regularized Euclidean Residual Algorithm for Nonlinear Least-Squares. <i>SIAM Journal on Numerical Analysis</i> , 2010, 48, 1-29.                            | 2.3 | 32        |
| 11 | On the use of iterative methods in cubic regularization for unconstrained optimization. <i>Computational Optimization and Applications</i> , 2015, 60, 35-57.                 | 1.6 | 31        |
| 12 | Subspace Trust-Region Methods for Large Bound-Constrained Nonlinear Equations. <i>SIAM Journal on Numerical Analysis</i> , 2006, 44, 1535-1555.                               | 2.3 | 29        |
| 13 | TRESNEI, a Matlab trust-region solver for systems of nonlinear equalities and inequalities. <i>Computational Optimization and Applications</i> , 2012, 51, 27-49.             | 1.6 | 29        |
| 14 | Nonsymmetric Preconditioner Updates in Newton-Krylov Methods for Nonlinear Systems. <i>SIAM Journal of Scientific Computing</i> , 2011, 33, 2595-2619.                        | 2.8 | 28        |
| 15 | Efficient Preconditioner Updates for Shifted Linear Systems. <i>SIAM Journal of Scientific Computing</i> , 2011, 33, 1785-1809.   | 2.8 | 26        |
| 16 | Adaptive Regularization Algorithms with Inexact Evaluations for Nonconvex Optimization. <i>SIAM Journal on Optimization</i> , 2019, 29, 2881-2915.                            | 2.0 | 25        |
| 17 | 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        |
| 18 | Quasi-Newton methods for constrained nonlinear systems: complexity analysis and applications. <i>Computational Optimization and Applications</i> , 2018, 71, 147-170.         | 1.6 | 21        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | A comparison of reduced and unreduced KKT systems arising from interior point methods. Computational Optimization and Applications, 2017, 68, 1-27.                               | 1.6 | 20        |
| 20 | An interior global method for nonlinear systems with simple bounds. Optimization Methods and Software, 2005, 20, 453-474.   | 2.4 | 19        |
| 21 | 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        |
| 22 | 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        |
| 23 | Approximate norm descent methods for constrained nonlinear systems. Mathematics of Computation, 2017, 87, 1327-1351.  | 2.1 | 18        |
| 24 | A Gauss-Newton method for solving bound-constrained underdetermined nonlinear systems. Optimization Methods and Software, 2009, 24, 219-235.                                      | 2.4 | 17        |
| 25 | Spectral estimates for unreduced symmetric KKT systems arising from Interior Point methods. Numerical Linear Algebra With Applications, 2016, 23, 776-800.                        | 1.6 | 17        |
| 26 | 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        |
| 27 | A new modular procedure for industrial plant simulations and its reliable implementation. Energy, 2016, 94, 380-390.  | 8.8 | 14        |
| 28 | New updates of incomplete LU factorizations and applications to large nonlinear systems. Optimization Methods and Software, 2014, 29, 321-340.                                    | 2.4 | 13        |
| 29 | Strong local convergence properties of adaptive regularized methods for nonlinear least squares. IMA Journal of Numerical Analysis, 2015, 35, 947-968.                            | 2.9 | 13        |
| 30 | Updating Constraint Preconditioners for KKT Systems in Quadratic Programming Via Low-Rank Corrections. SIAM Journal on Optimization, 2015, 25, 1787-1808.                         | 2.0 | 12        |
| 31 | Inexact restoration with subsampled trust-region methods for finite-sum minimization. Computational Optimization and Applications, 2020, 76, 701-736.                             | 1.6 | 12        |
| 32 | On real logarithms of nearby matrices and structured matrix interpolation. Applied Numerical Mathematics, 1999, 29, 145-165.  | 2.1 | 8         |
| 33 | 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         |
| 34 | On the update of constraint preconditioners for regularized KKT systems. Computational Optimization and Applications, 2016, 65, 339-360.  | 1.6 | 7         |
| 35 | Regularization and preconditioning of KKT systems arising in nonnegative least-squares problems. Numerical Linear Algebra With Applications, 2009, 16, 39-61.                     | 1.6 | 6         |
| 36 | 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         |

| #  | ARTICLE  | IF       | CITATIONS |
|----|--|----------|-----------|
| 37 | Solving Nonlinear Systems of Equations Via Spectral Residual Methods: Step-size Selection and Applications. <i>Journal of Scientific Computing</i> , 2022, 90, 1.      | 2.3      | 6         |
| 38 | Global convergence enhancement of classical line-search interior point methods for MCPs. <i>Journal of Computational and Applied Mathematics</i> , 2003, 151, 171-199. | 2.0      | 4         |
| 39 | Inexact Methods in the Numerical Solution of Stiff Initial Value Problems. <i>Computing (Vienna/New York)</i> , 2003, 71, 1-14.  | 1.784314 | 2         |
| 40 | Affine Scaling Methods for Image Deblurring Problems. , 2010, , .  |          | 2         |
| 41 | Computational experience with numerical methods for nonnegative least-squares problems. <i>Numerical Linear Algebra With Applications</i> , 2011, 18, 363-385.         | 1.6      | 2         |
| 42 | Modular Tool for the Simulation of Compressor Trains for Oil and Gas Applications. <i>Energy Procedia</i> , 2015, 82, 546-553.   | 1.8      | 2         |
| 43 | On Partial Cholesky Factorization and a Variant of Quasi-Newton Preconditioners for Symmetric Positive Definite Matrices. <i>Axioms</i> , 2018, 7, 44.                 | 1.9      | 1         |
| 44 | Subsampled First-Order Optimization Methods with Applications in Imaging. , 2021, , 1-35.  |          | 1         |
| 45 | On preconditioner updates for sequences of saddle-point linear systems. <i>Communications in Applied and Industrial Mathematics</i> , 2018, 9, 35-41.                  | 0.3      | 1         |
| 46 | Quadratic and Cubic Regularisation Methods with Inexact function and Random Derivatives for Finite-Sum Minimisation. , 2021, , .                                       |          | 1         |
| 47 | Quasi Matrix Free Preconditioners in Optimization and Nonlinear Least-Squares. , 2010, , .   |          | 0         |
| 48 | On conditioning of KKT systems in inexact interior point methods. <i>AIP Conference Proceedings</i> , 2019, , .  | 0.4      | 0         |