Giuseppe Rodriguez

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Old and new parameter choice rules for discrete ill-posed problems. Numerical Algorithms, 2013, 63, 65-87.	1.9	149
2	An adaptive pruning algorithm for the discrete L-curve criterion. Journal of Computational and Applied Mathematics, 2007, 198, 483-492.	2.0	141
3	Multi-parameter regularization techniques for ill-conditioned linear systems. Numerische Mathematik, 2003, 94, 203-228.	1.9	76
4	Two-Dimensional TSVD to Enhance the Spatial Resolution of Radiometer Data. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2450-2458.	6.3	63
5	Error estimates for linear systems with applications to regularization. Numerical Algorithms, 2008, 49, 85-104.	1.9	57
6	Spectral factorization of Laurent polynomials. Advances in Computational Mathematics, 1997, 7, 429-454.	1.6	55
7	Error estimates for the regularization of least squares problems. Numerical Algorithms, 2009, 51, 61-76.	1.9	51
8	Extrapolation techniques for ill-conditioned linear systems. Numerische Mathematik, 1998, 81, 1-29.	1.9	40
9	GCV for Tikhonov regularization by partial SVD. BIT Numerical Mathematics, 2017, 57, 1019-1039.	2.0	40
10	Block Gauss and Anti-Gauss Quadrature with Application to Networks. SIAM Journal on Matrix Analysis and Applications, 2013, 34, 1655-1684.	1.4	38
11	GCV for Tikhonov regularization via global Golub–Kahan decomposition. Numerical Linear Algebra With Applications, 2016, 23, 467-484.	1.6	37
12	Regularization parameter determination for discrete ill-posed problems. Journal of Computational and Applied Mathematics, 2015, 273, 132-149.	2.0	34
13	Parameter determination for Tikhonov regularization problems in general form. Journal of Computational and Applied Mathematics, 2018, 343, 12-25.	2.0	32
14	Regularized solution of a nonlinear problem in electromagnetic sounding. Inverse Problems, 2014, 30, 125014.	2.0	29
15	Energy and exergy analysis of a geothermal heat pump air conditioning system. Applied Thermal Engineering, 2015, 86, 333-347.	6.0	29
16	Error estimates for large-scale ill-posed problems. Numerical Algorithms, 2009, 51, 341-361.	1.9	28
17	Fast and accurate computation of orthogonal moments for texture analysis. Pattern Recognition, 2018, 83, 498-510.	8.1	28
18	Network Analysis via Partial Spectral Factorization and Gauss Quadrature. SIAM Journal of Scientific Computing, 2013, 35, A2046-A2068.	2.8	27

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19	Calibrating electromagnetic induction conductivities with time-domain reflectometry measurements. Hydrology and Earth System Sciences, 2018, 22, 1509-1523.	4.9	27
20	Geophysical investigations unravel the vestiges of ancient meandering channels and their dynamics in tidal landscapes. Scientific Reports, 2018, 8, 1708.	3.3	23
21	Bounding matrix functionals via partial global block Lanczos decomposition. Applied Numerical Mathematics, 2015, 94, 127-139.	2.1	21
22	Orthogonal splines based on B-splines $\hat{a} \in$ " with applications to least squares, smoothing and regularisation problems. Numerical Algorithms, 1993, 5, 25-40.	1.9	18
23	A fast solver for linear systems with displacement structure. Numerical Algorithms, 2010, 55, 529-556.	1.9	16
24	Numerical solution of the nonlinear Schrödinger equation, starting from the scattering data. Calcolo, 2011, 48, 75-88.	1.1	16
25	Inversion of Multiconfiguration Complex EMI Data with Minimum Gradient Support Regularization: A Case Study. Mathematical Geosciences, 2020, 52, 945-970.	2.4	15
26	A New Technique for Ill-Conditioned Linear Systems. Numerical Algorithms, 2003, 33, 433-442.	1.9	14
27	Fast Solution of Toeplitz―and Cauchyâ€Like Leastâ€Squares Problems. SIAM Journal on Matrix Analysis and Applications, 2006, 28, 724-748.	1.4	14
28	smt: a Matlab toolbox for structured matrices. Numerical Algorithms, 2012, 59, 639-659.	1.9	13
29	New block quadrature rules for the approximation of matrix functions. Linear Algebra and Its Applications, 2016, 502, 299-326.	0.9	13
30	FDEMtools: a MATLAB package for FDEM data inversion. Numerical Algorithms, 2020, 84, 1313-1327.	1.9	13
31	On the Cholesky factorization of the Gram matrix of locally supported functions. BIT Numerical Mathematics, 1995, 35, 233-257.	2.0	12
32	LDU factorization results for bi-infinite and semi-infinite scalar and block Toeplitz matrices. Calcolo, 1996, 33, 307-335.	1.1	12
33	On the Cholesky Factorization of the Gram Matrix of Multivariate Functions. SIAM Journal on Matrix Analysis and Applications, 2000, 22, 501-526.	1.4	12
34	Numerical solution of the finite moment problem in a reproducing kernel Hilbert space. Journal of Computational and Applied Mathematics, 1990, 33, 233-244.	2.0	12
35	Analysis of directed networks via partial singular value decomposition and Gauss quadrature. Linear Algebra and Its Applications, 2014, 456, 93-121.	0.9	11
36	A doubly relaxed minimal-norm Gauss–Newton method for underdetermined nonlinear least-squares problems. Applied Numerical Mathematics, 2022, 171, 233-248.	2.1	11

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37	The minimal-norm Gauss-Newton method and some of its regularized variants. Electronic Transactions on Numerical Analysis, 0, 53, 459-480.	0.0	11
38	Spectral factorization of bi-infinite multi-index block Toeplitz matrices. Linear Algebra and Its Applications, 2002, 343-344, 355-380.	0.9	9
39	On the Lanczos and Golub–Kahan reduction methods applied to discrete illâ€posed problems. Numerical Linear Algebra With Applications, 2016, 23, 187-204.	1.6	9
40	A spectral method for bipartizing a network and detecting a large anti-community. Journal of Computational and Applied Mathematics, 2020, 373, 112306.	2.0	9
41	Identifying the magnetic permeability in multi-frequency EM data inversion. Electronic Transactions on Numerical Analysis, 0, 27, 1-17.	0.0	9
42	On the numerical inversion of the Laplace transform in reproducing kernel Hilbert spaces. IMA Journal of Numerical Analysis, 1993, 13, 463-475.	2.9	8
43	On the limiting profile arising from orthonormalizing shifts of exponentially decaying functions. IMA Journal of Numerical Analysis, 1998, 18, 331-354.	2.9	8
44	2D TSVD to enhance the resolution of radiometer data. , 2012, , .		8
45	PQser: a Matlab package for spectral seriation. Numerical Algorithms, 2019, 80, 879-902.	1.9	8
46	Solution of second kind Fredholm integral equations by means of Gauss and anti-Gauss quadrature rules. Numerische Mathematik, 2020, 146, 699-728.	1.9	8
47	A rational Arnoldi process with applications. Numerical Linear Algebra With Applications, 2016, 23, 1007-1022.	1.6	6
48	Recovering the electrical conductivity of the soil via a linear integral model. Journal of Computational and Applied Mathematics, 2019, 352, 132-145.	2.0	6
49	Regularized Inversion of Multi-Frequency EM Data in Geophysical Applications. SEMA SIMAI Springer Series, 2016, , 357-369.	0.7	6
50	On the solution of the finite moment problem. Journal of Mathematical Analysis and Applications, 1992, 171, 321-333.	1.0	5
51	On the block Lanczos and block Golub–Kahan reduction methods applied to discrete illâ€posed problems. Numerical Linear Algebra With Applications, 2021, 28, e2376.	1.6	5
52	Fast superoptimal preconditioning of multiindex Toeplitz matrices. Linear Algebra and Its Applications, 2006, 418, 576-590.	0.9	4
53	Fast computation of two-level circulant preconditioners. Numerical Algorithms, 2006, 41, 275-295.	1.9	4

54 Smooth and Sparse Inversion of EMI Data from Multi-Configuration Measurements. , 2018, , .

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55	Regularized minimal-norm solution of an overdetermined system of first kind integral equations. Numerical Algorithms, 2023, 92, 471-502.	1.9	4
56	Approximation methods for the finite moment problem. Numerical Algorithms, 1993, 5, 391-405.	1.9	3
57	Semi-infinite multi-index perturbed block Toeplitz systems. Linear Algebra and Its Applications, 2003, 366, 459-482.	0.9	3
58	Chained graphs and some applications. Applied Network Science, 2021, 6, .	1.5	3
59	Block matrix models for dynamic networks. Applied Mathematics and Computation, 2021, 402, 126121.	2.2	3
60	Minimal-norm RKHS solution of an integral model in geo-electromagnetism. , 2021, , .		3
61	Numerical solution of the Helmholtz equation in an infinite strip by Wienerâ€Hopf factorization. Numerical Methods for Partial Differential Equations, 2010, 26, 1247-1274.	3.6	2
62	Recent improvements in photometric stereo for rock art 3D imaging. Digital Applications in Archaeology and Cultural Heritage, 2015, 2, 132-139.	1.3	2
63	An algorithm for computing minimum norm solutions of finite moment problem. , 1990, , 361-368.		2
64	On the numerical inversion of the Laplace transform with boundary constraints. , 1992, , 155-165.		2
65	Scorepochs: A Computer-Aided Scoring Tool for Resting-State M/EEG Epochs. Sensors, 2022, 22, 2853.	3.8	2
66	Identifying the lights position in photometric stereo under unknown lighting. , 2021, , .		2
67	Iterative Methods for the Computation of the Perron Vector of Adjacency Matrices. Mathematics, 2021, 9, 1522.	2.2	1
68	Numerical solution of the finite moment problem in a reproducing kernel Hilbert space. Journal of Computational and Applied Mathematics, 1990, 3, 233-244.	2.0	1
69	Image segmentation by texture analysis. , 0, , .		0
70	An Algorithm for Solving Toeplitz Systems by Embedding in Infinite Systems. , 2005, , 383-401.		0