## Giuseppe Rodriguez

## List of Publications by Year in descending order

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1 Old and new parameter choice rules for discrete ill-posed problems. Numerical Algorithms, 2013, 63,
65-87.
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An adaptive pruning algorithm for the discrete L-curve criterion. Journal of Computational and Applied Mathematics, 2007, 198, 483-492.
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Multi-parameter regularization techniques for ill-conditioned linear systems. Numerische
3 Multi-parameter regularization te
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Two-Dimensional TSVD to Enhance the Spatial Resolution of Radiometer Data. IEEE Transactions on
Geoscience and Remote Sensing, 2014, 52, 2450-2458.
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Error estimates for linear systems with applications to regularization. Numerical Algorithms, 2008,
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$\begin{array}{ll} & \text { Error estima } \\ & 49,85-104 .\end{array}$

Spectral factorization of Laurent polynomials. Advances in Computational Mathematics, 1997, 7,
429-454.
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$7 \quad$ Error estimates for the regularization of least squares problems. Numerical Algorithms, 2009, 51,
$61-76$.
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8 Extrapolation techniques for ill-conditioned linear systems. Numerische Mathematik, 1998, 81, 1-29.
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9 GCV for Tikhonov regularization by partial SVD. BIT Numerical Mathematics, 2017, 57, 1019-1039.
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10 Block Gauss and Anti-Gauss Quadrature with Application to Networks. SIAM Journal on Matrix Analysis and Applications, 2013, 34, 1655-1684.
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11 GCV for Tikhonov regularization via global Golubâ€"Kahan decomposition. Numerical Linear Algebra With Applications, 2016, 23, 467-484.
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Regularization parameter determination for discrete ill-posed problems. Journal of Computational and Applied Mathematics, 2015, 273, 132-149.
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Parameter determination for Tikhonov regularization problems in general form. Journal of
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Computational and Applied Mathematics, 2018, 343, 12-25.

Regularized solution of a nonlinear problem in electromagnetic sounding. Inverse Problems, 2014, 30,
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$14 \quad 125014$.

Energy and exergy analysis of a geothermal heat pump air conditioning system. Applied Thermal
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16 Error estimates for large-scale ill-posed problems. Numerical Algorithms, 2009, 51, 341-361.
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19 Calibrating electromagnetic induction conductivities with time

```25 Inversion of Multiconfiguration Complex EMI Data with Minimum Gradient Support Regularization: A
```Case Study. Mathematical Geosciences, 2020, 52, 945-970.\(2.4 \quad 15\)
26 A New Technique for Ill-Conditioned Linear Systems. Numerical Algorithms, 2003, 33, 433-442.
27 Fast Solution of Toeplitzâ€•and Cauchyâ€Łike Leastâ€Squares Problems. SIAM Journal on Matrix Analysis andApplications, 2006, 28, 724-748.
28 smt: a Matlab toolbox for structured matrices. Numerical Algorithms, 2012, 59, 639-659.1.913
29 New block quadrature rules for the approximation of matrix functions. Linear Algebra and Its
Applications, 2016, 502, 299-326.
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30 FDEMtools: a MATLAB package for FDEM data inversion. Numerical Algorithms, 2020, 84, 1313-1327.1.913
31 On the Cholesky factorization of the Gram matrix of locally supported functions. BIT Numerical ..... 2.0 ..... 12 Mathematics, 1995, 35, 233-257.LDU factorization results for bi-infinite and semi-infinite scalar and block Toeplitz matrices. Calcolo,On the Cholesky Factorization of the Gram Matrix of Multivariate Functions. SIAM Journal on Matrix
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33Numerical solution of the finite moment problem in a reproducing kernel Hilbert space. Journal ofComputational and Applied Mathematics, 1990, 33, 233-244.

Analysis of directed networks via partial singular value decomposition and Gauss quadrature. Linear
Algebra and Its Applications, 2014, 456, 93-121.

The minimal-norm Gauss-Newton method and some of its regularized variants. Electronic
Transactions on Numerical Analysis, 0, 53, 459-480.

Spectral factorization of bi-infinite multi-index block Toeplitz matrices. Linear Algebra and Its Applications, 2002, 343-344, 355-380.

On the Lanczos and Golubâ€"Kahan reduction methods applied to discrete illâ€posed problems. Numerical
Linear Algebra With Applications, 2016, 23, 187-204.

A spectral method for bipartizing a network and detecting a large anti-community. Journal of Computational and Applied Mathematics, 2020, 373, 112306.

Identifying the magnetic permeability in multi-frequency EM data inversion. Electronic Transactions
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On the limiting profile arising from orthonormalizing shifts of exponentially decaying functions. IMA
Journal of Numerical Analysis, 1998, 18, 331-354.

2D TSVD to enhance the resolution of radiometer data. , 2012, , .
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\(45 \quad\) PQser: a Matlab package for spectral seriation. Numerical Algorithms, 2019, 80, 879-902.

Solution of second kind Fredholm integral equations by means of Gauss and anti-Gauss quadrature rules. Numerische Mathematik, 2020, 146, 699-728.

A rational Arnoldi process with applications. Numerical Linear Algebra With Applications, 2016, 23,
1007-1022.

Recovering the electrical conductivity of the soil via a linear integral model. Journal of Computational and Applied Mathematics, 2019, 352, 132-145.

Regularized Inversion of Multi-Frequency EM Data in Geophysical Applications. SEMA SIMAI Springer Series, 2016, , 357-369.

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Fast superoptimal preconditioning of multiindex Toeplitz matrices. Linear Algebra and Its Applications, 2006, 418, 576-590.

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56 Approximation methods for the finite moment problem. Numerical Algorithms, 1993, 5, 391-405.
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57 Semi-infinite multi-index perturbed block Toeplitz systems. Linear Algebra and Its Applications, 2003,
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58 Chained graphs and some applications. Applied Network Science, 2021, 6, .
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59 Block matrix models for dynamic networks. Applied Mathematics and Computation, 2021, 402, 126121.

60 Minimal-norm RKHS solution of an integral model in geo-electromagnetism. , 2021, , .

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Recent improvements in photometric stereo for rock art 3D imaging. Digital Applications in
Archaeology and Cultural Heritage, 2015, 2, 132-139.
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63 An algorithm for computing minimum norm solutions of finite moment problem. , 1990, , 361-368.
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64 On the numerical inversion of the Laplace transform with boundary constraints. , 1992, , 155-165.

65 Scorepochs: A Computer-Aided Scoring Tool for Resting-State M/EEG Epochs. Sensors, 2022, 22, 2853.
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66 Identifying the lights position in photometric stereo under unknown lighting. , 2021, , .
67 Iterative Methods for the Computation of the Perron Vector of Adjacency Matrices. Mathematics, 2021, 9, 1522.
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Numerical solution of the finite moment problem in a reproducing kernel Hilbert space. Journal of Computational and Applied Mathematics, 1990, 3, 233-244.```


[^0]:    Fast and accurate computation of orthogonal moments for texture analysis. Pattern Recognition,

