Marco Prato

List of Publications by Year
in descending order

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58	1,030	471061	433756
papers	citations	17	31
		h-index	g-index

58	58	58	830
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deducing Electron Properties from Hard X-ray Observations. Space Science Reviews, 2011, 159, 301-355.	3.7	143
2	Deep unfolding of a proximal interior point method for image restoration. Inverse Problems, 2020, 36, 034005.	1.0	73
3	Variable Metric Inexact Line-Search-Based Methods for Nonsmooth Optimization. SIAM Journal on Optimization, 2016, 26, 891-921.	1.2	64
4	Electron Flux Spectral Imaging of Solar Flares through Regularized Analysis of Hard Xâ€Ray Source Visibilities. Astrophysical Journal, 2007, 665, 846-855.	1.6	56
5	Composition of fine and coarse particles in a coastal site of the central Mediterranean: Carbonaceous species contributions. Atmospheric Environment, 2011, 45, 7470-7477.	1.9	54
6	Efficient deconvolution methods for astronomical imaging: algorithms and IDL-GPU codes. Astronomy and Astrophysics, 2012, 539, A133.	2.1	53
7	Anisotropic Bremsstrahlung Emission and the Form of Regularized Electron Flux Spectra in Solar Flares. Astrophysical Journal, 2004, 613, 1233-1240.	1.6	48
8	New convergence results for the scaled gradient projection method. Inverse Problems, 2015, 31, 095008.	1.0	47
9	Accuracy of Funduscopy to Identify True Edema versus Pseudoedema of the Optic Disc. , 2012, 53, 1.		45
10	On the convergence of a linesearch based proximal-gradient method for nonconvex optimization. Inverse Problems, 2017, 33, 055005.	1.0	39
11	HARD X-RAY IMAGING OF SOLAR FLARES USING INTERPOLATED VISIBILITIES. Astrophysical Journal, 2009, 703, 2004-2016.	1.6	37
12	A convergent blind deconvolution method for post-adaptive-optics astronomical imaging. Inverse Problems, 2013, 29, 065017.	1.0	37
13	Electronâ€Electron Bremsstrahlung Emission and the Inference of Electron Flux Spectra in Solar Flares. Astrophysical Journal, 2007, 670, 857-861.	1.6	29
14	A New Steplength Selection for Scaled Gradient Methods with Application to Image Deblurring. Journal of Scientific Computing, 2015, 65, 895-919.	1.1	26
15	Nonnegative image reconstruction from sparse Fourier data: a new deconvolution algorithm. Inverse Problems, 2010, 26, 095001.	1.0	24
16	A New Semiblind Deconvolution Approach for Fourier-Based Image Restoration: An Application in Astronomy. SIAM Journal on Imaging Sciences, 2013, 6, 1736-1757.	1.3	24
17	Regularized Reconstruction of the Differential Emission Measure from Solar Flare Hard X-Ray Spectra. Solar Physics, 2006, 237, 61-83.	1.0	23
18	A block coordinate variable metric linesearch based proximal gradient method. Computational Optimization and Applications, 2018, 71, 5-52.	0.9	21

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19	A regularization algorithm for decoding perceptual temporal profiles from fMRI data. NeuroImage, 2011, 56, 258-267.	2.1	19
20	Inverse problems in machine learning: An application to brain activity interpretation. Journal of Physics: Conference Series, 2008, 135, 012085.	0.3	14
21	A Scaled Gradient Projection Method for Bayesian Learning in Dynamical Systems. SIAM Journal of Scientific Computing, 2015, 37, A1297-A1318.	1.3	13
22	THE LOCATION OF CENTROIDS IN PHOTON AND ELECTRON MAPS OF SOLAR FLARES. Astrophysical Journal, 2009, 706, 917-922.	1.6	13
23	A blind deconvolution method for ground based telescopes and Fizeau interferometers. New Astronomy, 2015, 40, 1-13.	0.8	12
24	A cyclic block coordinate descent method with generalized gradient projections. Applied Mathematics and Computation, 2016, 286, 288-300.	1.4	12
25	Convergence of Inexact Forward--Backward Algorithms Using the Forward--Backward Envelope. SIAM Journal on Optimization, 2020, 30, 3069-3097.	1.2	12
26	Accelerated gradient methods for the x-ray imaging of solar flares. Inverse Problems, 2014, 30, 055004.	1.0	10
27	Deep Neural Networks for Inverse Problems with Pseudodifferential Operators: An Application to Limited-Angle Tomography. SIAM Journal on Imaging Sciences, 2021, 14, 470-505.	1.3	10
28	Recent Advances in Variable Metric First-Order Methods. Springer INdAM Series, 2019, , 1-31.	0.4	9
29	Regularization Methods for the Solution of Inverse Problems inÂSolar X-ray and Imaging Spectroscopy. Archives of Computational Methods in Engineering, 2009, 16, 109-160.	6.0	7
30	On the filtering effect of iterative regularization algorithms for discrete inverse problems. Inverse Problems, 2013, 29, 125013.	1.0	7
31	Determining the Spatial Variation of Accelerated Electron Spectra in Solar Flares. AIP Conference Proceedings, 2008, , .	0.3	6
32	A convergent least-squares regularized blind deconvolution approach. Applied Mathematics and Computation, 2015, 259, 173-186.	1.4	6
33	A Regularized Visibility-Based Approach to Astronomical Imaging Spectroscopy. SIAM Journal on Imaging Sciences, 2009, 2, 910-930.	1.3	5
34	New convergence results for the inexact variable metric forwardâ€“backward method. Applied Mathematics and Computation, 2021, 392, 125719.	1.4	5
35	Learned Image Deblurring by Unfolding a Proximal Interior Point Algorithm. , 2019, , .		4
36	Deducing Electron Properties from Hard X-ray Observations. , 2011, , 301-355.		4

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37	Regularized solution of the solar Bremsstrahlung inverse problem: model dependence and implementation issues. Inverse Problems in Science and Engineering, 2008, 16, 523-545.	1.2	3
38	On the constrained minimization of smooth Kurdykaâ€”Åojasiewicz functions with the scaled gradient projection method. Journal of Physics: Conference Series, 2016, 756, 012001.	0.3	2
39	Phase estimation in differential-interference-contrast (DIC) microscopy. , 2016, , .		2
40	A comparison of edge-preserving approaches for differential interference contrast microscopy. Inverse Problems, 2017, 33, 085009.	1.0	2
41	A Bregman inexact linesearchâ€“based forwardâ€“backward algorithm for nonsmooth nonconvex optimization. Journal of Physics: Conference Series, 2018, 1131, 012013.	0.3	2
42	A Hybrid Interior Point - Deep Learning Approach for Poisson Image Deblurring. , 2020, , .		2
43	Efficient Block Coordinate Methods forÂBlind Cauchy Denoising. Lecture Notes in Computer Science, 2020, , 198-211.	1.0	2
44	A practical use of regularization for supervised learning with kernel methods. Pattern Recognition Letters, 2013, 34, 610-618.	2.6	1
45	Scaled Gradient Projection Methods for Astronomical Imaging. EAS Publications Series, 2013, 59, 325-356.	0.3	1
46	Strehl-constrained reconstruction of post-adaptive optics data and the Software Package AIRY, v. 6.1. Proceedings of SPIE, 2014, , .	0.8	1
47	An alternating minimization method for blind deconvolution from Poisson data. Journal of Physics: Conference Series, 2014, 542, 012006.	0.3	1
48	Imaging spectroscopy of hard x-ray sources in solar flares using regularized analysis of source visibilities. Journal of Physics: Conference Series, 2008, 124, 012034.	0.3	0
49	A visibility-based approach using regularization for imaging-spectroscopy in solar X-ray astronomy. Journal of Physics: Conference Series, 2008, 135, 012084.	0.3	0
50	A Novel Gradient Projection Approach for Fourier-Based Image Restoration. , 2010, , .		0
51	An image reconstruction method from Fourier data with uncertainties on the spatial frequencies. Journal of Physics: Conference Series, 2013, 464, 012008.	0.3	0
52	Filter factor analysis of scaled gradient methods for linear least squares. Journal of Physics: Conference Series, 2013, 464, 012006.	0.3	0
53	Application of cyclic block generalized gradient projection methods to poisson blind deconvolution. , 2015, , .		0
54	The software package AIRY 7.0: new efficient deconvolution methods for post-adaptive optics data. , 2016, , .		0

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55	TV-regularized phase reconstruction in differential-interference-contrast (DIC) microscopy. AIP Conference Proceedings, 2016, , .	0.3	0
56	A fingerprint of a heterogeneous data set. Advances in Data Analysis and Classification, 0, , 1.	0.9	0
57	Multiple Image Deblurring with High Dynamic-Range Poisson Data. Springer INdAM Series, 2019, , 117-140.	0.4	0
58	A comparison of nested primal-dual forward-backward methods for Poisson image deblurring. , 2021, , .		0