

# Silvia Bonettini

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43  
papers

639  
citations

11  
h-index

24  
g-index

46  
ext. papers

777  
ext. citations

1.7  
avg, IF

4.34  
L-index

#	Paper	IF	Citations
43	New convergence results for the inexact variable metric forwardBackward method. <i>Applied Mathematics and Computation</i> , <b>2021</b> , 392, 125719	2.7	0
42	Variable metric techniques for forwardBackward methods in imaging. <i>Journal of Computational and Applied Mathematics</i> , <b>2021</b> , 385, 113192	2.4	1
41	Efficient Block Coordinate Methods for Blind Cauchy Denoising. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 198-211	0.9	1
40	Convergence of Inexact Forward--Backward Algorithms Using the Forward--Backward Envelope. <i>SIAM Journal on Optimization</i> , <b>2020</b> , 30, 3069-3097	2	2
39	Recent Advances in Variable Metric First-Order Methods. <i>Springer INdAM Series</i> , <b>2019</b> , 1-31	0.4	2
38	A nonsmooth regularization approach based on shearlets for Poisson noise removal in ROI tomography. <i>Applied Mathematics and Computation</i> , <b>2018</b> , 318, 131-152	2.7	6
37	A Bregman inexact linesearchBased forwardBackward algorithm for nonsmooth nonconvex optimization. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1131, 012013	0.3	2
36	Shearlet-based regularized reconstruction in region-of-interest computed tomography. <i>Mathematical Modelling of Natural Phenomena</i> , <b>2018</b> , 13, 34	3	
35	Inertial Variable Metric Techniques for the Inexact Forward--Backward Algorithm. <i>SIAM Journal of Scientific Computing</i> , <b>2018</b> , 40, A3180-A3210	2.6	9
34	A block coordinate variable metric linesearch based proximal gradient method. <i>Computational Optimization and Applications</i> , <b>2018</b> , 71, 5-52	1.4	8
33	On the convergence of a linesearch based proximal-gradient method for nonconvex optimization. <i>Inverse Problems</i> , <b>2017</b> , 33, 055005	2.3	24
32	A Variable Metric Forward-Backward Method with Extrapolation. <i>SIAM Journal of Scientific Computing</i> , <b>2016</b> , 38, A2558-A2584	2.6	10
31	A cyclic block coordinate descent method with generalized gradient projections. <i>Applied Mathematics and Computation</i> , <b>2016</b> , 286, 288-300	2.7	9
30	On the constrained minimization of smooth KurdykaŁjasiewicz functions with the scaled gradient projection method. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 756, 012001	0.3	2
29	The ROI CT problem: a shearlet-based regularization approach. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 756, 012009	0.3	1
28	Variable Metric Inexact Line-Search-Based Methods for Nonsmooth Optimization. <i>SIAM Journal on Optimization</i> , <b>2016</b> , 26, 891-921	2	46
27	Scaling Techniques for $\epsilon$ -Subgradient Methods. <i>SIAM Journal on Optimization</i> , <b>2016</b> , 26, 1741-1772		7

26	A Scaled Gradient Projection Method for Bayesian Learning in Dynamical Systems. <i>SIAM Journal of Scientific Computing</i> , <b>2015</b> , 37, A1297-A1318	2.6	11
25	A blind deconvolution method for ground based telescopes and Fizeau interferometers. <i>New Astronomy</i> , <b>2015</b> , 40, 1-13	1.8	7
24	Shearlet-based regularized ROI reconstruction in fan beam computed tomography <b>2015</b> ,		4
23	New convergence results for the scaled gradient projection method. <i>Inverse Problems</i> , <b>2015</b> , 31, 095008	2.3	35
22	An alternating extragradient method with non euclidean projections for saddle point problems. <i>Computational Optimization and Applications</i> , <b>2014</b> , 59, 511-540	1.4	
21	An alternating minimization method for blind deconvolution from Poisson data. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 542, 012006	0.3	1
20	Accelerated gradient methods for the x-ray imaging of solar flares. <i>Inverse Problems</i> , <b>2014</b> , 30, 055004	2.3	8
19	Primal-dual first order methods for total variation image restoration in presence of poisson noise <b>2014</b> ,		4
18	A New Semiblind Deconvolution Approach for Fourier-Based Image Restoration: An Application in Astronomy. <i>SIAM Journal on Imaging Sciences</i> , <b>2013</b> , 6, 1736-1757	1.9	20
17	Scaling techniques for gradient projection-type methods in astronomical image deblurring. <i>International Journal of Computer Mathematics</i> , <b>2013</b> , 90, 9-29	1.2	22
16	A convergent blind deconvolution method for post-adaptive-optics astronomical imaging. <i>Inverse Problems</i> , <b>2013</b> , 29, 065017	2.3	32
15	An image reconstruction method from Fourier data with uncertainties on the spatial frequencies. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 464, 012008	0.3	
14	On the Convergence of PrimalDual Hybrid Gradient Algorithms for Total Variation Image Restoration. <i>Journal of Mathematical Imaging and Vision</i> , <b>2012</b> , 44, 236-253	1.6	51
13	An alternating extragradient method for total variation-based image restoration from Poisson data. <i>Inverse Problems</i> , <b>2011</b> , 27, 095001	2.3	46
12	Inexact block coordinate descent methods with application to non-negative matrix factorization. <i>IMA Journal of Numerical Analysis</i> , <b>2011</b> , 31, 1431-1452	1.8	45
11	Nonnegative image reconstruction from sparse Fourier data: a new deconvolution algorithm. <i>Inverse Problems</i> , <b>2010</b> , 26, 095001	2.3	21
10	On the Uniqueness of the Solution of Image Reconstruction Problems with Poisson Data <b>2010</b> ,		5
9	A scaled gradient projection method for constrained image deblurring. <i>Inverse Problems</i> , <b>2009</b> , 25, 015002	2.3	154

8	Non-negatively constrained image deblurring with an inexact interior point method. <i>Journal of Computational and Applied Mathematics</i> , <b>2009</b> , 231, 236-248	2.4	11
7	Accelerated gradient methods for constrained image deblurring. <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 135, 012022	0.3	
6	On the solution of indefinite systems arising in nonlinear programming problems. <i>Numerical Linear Algebra With Applications</i> , <b>2007</b> , 14, 807-831	1.6	1
5	Inner solvers for interior point methods for large scale nonlinear programming. <i>Computational Optimization and Applications</i> , <b>2007</b> , 37, 1-34	1.4	7
4	Some iterative methods for the solution of a symmetric indefinite KKT system. <i>Computational Optimization and Applications</i> , <b>2007</b> , 38, 3-25	1.4	6
3	A nonmonotone semismooth inexact Newton method. <i>Optimization Methods and Software</i> , <b>2007</b> , 22, 637-657	1.3	6
2	An inexact Newton method combined with Hestenes multipliers scheme for the solution of Karush-Kuhn-Tucker systems. <i>Applied Mathematics and Computation</i> , <b>2005</b> , 168, 651-676	2.7	3
1	A nonmonotone inexact Newton method. <i>Optimization Methods and Software</i> , <b>2005</b> , 20, 475-491	1.3	9