Serena Morigi

List of Publications by Year
in descending order

53 papers	1,188 citations	430754 18 h-index	377752 34 g-index
54 all docs	54 docs citations	54 times ranked	1057 citing authors

#	Article	IF	Citations
1	A Unified Surface Geometric Framework for Feature-Aware Denoising, Hole Filling and Context-Aware Completion. Journal of Mathematical Imaging and Vision, 2023, 65, 82-98.	0.8	2
2	JOT: A Variational Signal Decomposition Into Jump, Oscillation and Trend. IEEE Transactions on Signal Processing, 2022, 70, 772-784.	3.2	4
3	Learning Nonlinear Electrical Impedance Tomography. Journal of Scientific Computing, 2022, 90, 1.	1.1	11
4	A Forward-Backward Strategy forÂHandling Non-linearity in Electrical Impedance Tomography. Lecture Notes in Computer Science, 2021, , 635-651.	1.0	2
5	Automatic Parameter Selection Based on Residual Whiteness for Convex Non-convex Variational Restoration. Springer Proceedings in Mathematics and Statistics, 2021, , 95-111.	0.1	2
6	Non-Convex Super-Resolution Of Oct Images Via Sparse Representation. , 2021, , .		1
7	A Variational Approach to Additive Image Decomposition into Structure, Harmonic, and Oscillatory Components. SIAM Journal on Imaging Sciences, 2021, 14, 1749-1789.	1.3	7
8	Convex Non-convex Variational Models. , 2021, , 1-57.		1
9	Non-convex Total Variation Regularization for Convex Denoising of Signals. Journal of Mathematical Imaging and Vision, 2020, 62, 825-841.	0.8	48
10	Spatially-Adaptive Variational Reconstructions for Linear Inverse Electrical Impedance Tomography. Journal of Scientific Computing, 2020, 84, 1.	1.1	19
11	BrightNet: A Deep CNN for OLED-Based Point of Care Immunofluorescent Diagnostic Systems. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6766-6775.	2.4	7
12	Convex non-convex segmentation of scalar fields over arbitrary triangulated surfaces. Journal of Computational and Applied Mathematics, 2019, 349, 438-451.	1.1	10
13	Sparsity-Inducing Nonconvex Nonseparable Regularization for Convex Image Processing. SIAM Journal on Imaging Sciences, 2019, 12, 1099-1134.	1.3	27
14	A convex-nonconvex variational method for the additive decomposition of functions on surfaces. Inverse Problems, 2019, 35, 124008.	1.0	12
15	A Non-convex Nonseparable Approach to Single-Molecule Localization Microscopy. Lecture Notes in Computer Science, 2019, , 498-509.	1.0	0
16	A Robust Group-Sparse Representation Variational Method With Applications to Face Recognition. IEEE Transactions on Image Processing, 2019, 28, 2785-2798.	6.0	27
17	Space-variant generalised Gaussian regularisation for image restoration. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2019, 7, 490-503.	1.3	3
18	Shape Partitioning via $${L}_{p}$$ L p Compressed Modes. Journal of Mathematical Imaging and Vision, 2018, 60, 1111-1131.	0.8	3

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19	An extended B-Rep solid modeling kernel integrating mesh and NURBS faces. Computer-Aided Design and Applications, 2018, 15, 697-706.	0.4	1
20	Space-Variant TV Regularization for Image Restoration. Lecture Notes in Computational Vision and Biomechanics, 2018, , 160-169.	0.5	4
21	Convex non-convex image segmentation. Numerische Mathematik, 2018, 138, 635-680.	0.9	21
22	Image enhancement variational methods for enabling strong cost reduction in OLEDâ€based pointâ€ofâ€care immunofluorescent diagnostic systems. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2932.	1.0	8
23	Whiteness Constraints in a Unified Variational Framework for Image Restoration. Journal of Mathematical Imaging and Vision, 2018, 60, 1503-1526.	0.8	10
24	A meshless strategy for shape diameter analysis. Visual Computer, 2017, 33, 303-315.	2.5	5
25	Majorizationâ€“minimization generalized Krylov subspace methods for $${ell _p}$$â€“$${ell _q}$$ optimization applied to image restoration. BIT Numerical Mathematics, 2017, 57, 351-378.	1.0	41
26	Fractional Tikhonov regularization with a nonlinear penalty term. Journal of Computational and Applied Mathematics, 2017, 324, 142-154.	1.1	21
27	Convex Non-Convex Segmentation over Surfaces. Lecture Notes in Computer Science, 2017, , 348-360.	1.0	0
28	A Unified Framework for the Restoration of Images Corrupted by Additive White Noise. Lecture Notes in Computer Science, 2017, , 498-510.	1.0	0
29	Nonconvex nonsmooth optimization via convexâ€“nonconvex majorizationâ€“minimization. Numerische Mathematik, 2017, 136, 343-381.	0.9	43
30	A SmartPen for 3D interaction and sketch-based surface modeling. International Journal of Advanced Manufacturing Technology, 2016, 84, 1625.	1.5	2
31	Convex Image Denoising via Non-convex Regularization with Parameter Selection. Journal of Mathematical Imaging and Vision, 2016, 56, 195-220.	0.8	66
32	Constrained TV $$_p$$ p - $$ell _2$$ â„“ 2 Model for Image Restoration. Journal of Scientific Computing, 2016, 68, 64-91.	1.1	50
33	A Generalized Krylov Subspace Method for ell_p-ell_q Minimization. SIAM Journal of Scientific Computing, 2015, 37, S30-S50.	1.3	47
34	Convex Image Denoising via Non-Convex Regularization. Lecture Notes in Computer Science, 2015, , 666-677.	1.0	25
35	Variational Image Restoration with Constraints on Noise Whiteness. Journal of Mathematical Imaging and Vision, 2015, 53, 61-77.	0.8	7
36	Image restoration with Poissonâ€“Gaussian mixed noise. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2014, 2, 12-24.	1.3	16

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37	Multilevel mesh simplification. Visual Computer, 2014, 30, 479-492.	2.5	7
38	Variational Image Denoising Based on Autocorrelation Whiteness. SIAM Journal on Imaging Sciences, 2013, 6, 1931-1955.	1.3	16
39	Subdivision surfaces integrated in a CAD system. CAD Computer Aided Design, 2013, 45, 1294-1305.	1.4	21
40	Nonlocal Surface Fairing. Lecture Notes in Computer Science, 2012, , 38-49.	1.0	4
41	Parallel Rendering and Animation of Subdivision Surfaces on the Cell BE Processor. International Journal of Parallel Programming, 2011, 39, 494-521.	1.1	0
42	A hybrid multilevel-active set method for large box-constrained linear discrete ill-posed problems. Calcolo, 2011, 48, 89-105.	0.6	5
43	Reconstructing surfaces from sketched 3D irregular curve networks. , 2011, , .		4
44	Edge-driven Image Interpolation using Adaptive Anisotropic Radial Basis Functions. Journal of Mathematical Imaging and Vision, 2010, 36, 125-139.	0.8	14
45	A fast interactive reverse-engineering system. CAD Computer Aided Design, 2010, 42, 860-873.	1.4	27
46	A truncated projected SVD method for linear discrete ill-posed problems. Numerical Algorithms, 2007, 43, 197-213.	1.1	23
47	Orthogonal projection regularization operators. Numerical Algorithms, 2007, 44, 99-114.	1.1	24
48	Shape preserving surface reconstruction using locally anisotropic radial basis function interpolants. Computers and Mathematics With Applications, 2006, 51, 1185-1198.	1.4	41
49	Fast surface reconstruction and hole filling using positive definite radial basis functions. Numerical Algorithms, 2005, 39, 289-305.	1.1	32
50	Efficient 6DOF tools for free-form surface modelling. Visual Computer, 2004, 20, 554-564.	2.5	1
51	3D long bone reconstruction based on level sets. Computerized Medical Imaging and Graphics, 2004, 28, 377-390.	3.5	11
52	Tikhonov regularization and the L-curve for large discrete ill-posed problems. Journal of Computational and Applied Mathematics, 2000, 123, 423-446.	1.1	383
53	Some results for a class of generalized polynomials. Advances in Computational Mathematics, 2000, 12, 133-149.	0.8	21