

Serena Morigi

List of Publications by Year in descending order

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53
papers

1,188
citations

430874

18
h-index

377865

34
g-index

54
all docs

54
docs citations

54
times ranked

1057
citing authors

#	ARTICLE	IF	CITATIONS
1	Tikhonov regularization and the L-curve for large discrete ill-posed problems. Journal of Computational and Applied Mathematics, 2000, 123, 423-446.	2.0	383
2	Convex Image Denoising via Non-convex Regularization with Parameter Selection. Journal of Mathematical Imaging and Vision, 2016, 56, 195-220.	1.3	66
3	Constrained TV ℓ_p - ℓ_q Model for Image Restoration. Journal of Scientific Computing, 2016, 68, 64-91.	2.3	50
4	Non-convex Total Variation Regularization for Convex Denoising of Signals. Journal of Mathematical Imaging and Vision, 2020, 62, 825-841.	1.3	48
5	A Generalized Krylov Subspace Method for ℓ_p - ℓ_q Minimization. SIAM Journal of Scientific Computing, 2015, 37, S30-S50.	2.8	47
6	Nonconvex nonsmooth optimization via convex "nonconvex majorization" minimization. Numerische Mathematik, 2017, 136, 343-381.	1.9	43
7	Shape preserving surface reconstruction using locally anisotropic radial basis function interpolants. Computers and Mathematics With Applications, 2006, 51, 1185-1198.	2.7	41
8	Majorization "minimization" generalized Krylov subspace methods for ℓ_p - ℓ_q optimization applied to image restoration. BIT Numerical Mathematics, 2017, 57, 351-378.	2.0	41
9	Fast surface reconstruction and hole filling using positive definite radial basis functions. Numerical Algorithms, 2005, 39, 289-305.	1.9	32
10	A fast interactive reverse-engineering system. CAD Computer Aided Design, 2010, 42, 860-873.	2.7	27
11	Sparsity-Inducing Nonconvex Nonseparable Regularization for Convex Image Processing. SIAM Journal on Imaging Sciences, 2019, 12, 1099-1134.	2.2	27
12	A Robust Group-Sparse Representation Variational Method With Applications to Face Recognition. IEEE Transactions on Image Processing, 2019, 28, 2785-2798.	9.8	27
13	Convex Image Denoising via Non-Convex Regularization. Lecture Notes in Computer Science, 2015, , 666-677.	1.3	25
14	Orthogonal projection regularization operators. Numerical Algorithms, 2007, 44, 99-114.	1.9	24
15	A truncated projected SVD method for linear discrete ill-posed problems. Numerical Algorithms, 2007, 43, 197-213.	1.9	23
16	Some results for a class of generalized polynomials. Advances in Computational Mathematics, 2000, 12, 133-149.	1.6	21
17	Subdivision surfaces integrated in a CAD system. CAD Computer Aided Design, 2013, 45, 1294-1305.	2.7	21
18	Fractional Tikhonov regularization with a nonlinear penalty term. Journal of Computational and Applied Mathematics, 2017, 324, 142-154.	2.0	21

#	ARTICLE	IF	CITATIONS
19	Convex non-convex image segmentation. <i>Numerische Mathematik</i> , 2018, 138, 635-680.	1.9	21
20	Spatially-Adaptive Variational Reconstructions for Linear Inverse Electrical Impedance Tomography. <i>Journal of Scientific Computing</i> , 2020, 84, 1.	2.3	19
21	Variational Image Denoising Based on Autocorrelation Whiteness. <i>SIAM Journal on Imaging Sciences</i> , 2013, 6, 1931-1955.	2.2	16
22	Image restoration with Poisson-Gaussian mixed noise. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2014, 2, 12-24.	1.9	16
23	Edge-driven Image Interpolation using Adaptive Anisotropic Radial Basis Functions. <i>Journal of Mathematical Imaging and Vision</i> , 2010, 36, 125-139.	1.3	14
24	A convex-nonconvex variational method for the additive decomposition of functions on surfaces. <i>Inverse Problems</i> , 2019, 35, 124008.	2.0	12
25	3D long bone reconstruction based on level sets. <i>Computerized Medical Imaging and Graphics</i> , 2004, 28, 377-390.	5.8	11
26	Learning Nonlinear Electrical Impedance Tomography. <i>Journal of Scientific Computing</i> , 2022, 90, 1.	2.3	11
27	Whiteness Constraints in a Unified Variational Framework for Image Restoration. <i>Journal of Mathematical Imaging and Vision</i> , 2018, 60, 1503-1526.	1.3	10
28	Convex non-convex segmentation of scalar fields over arbitrary triangulated surfaces. <i>Journal of Computational and Applied Mathematics</i> , 2019, 349, 438-451.	2.0	10
29	Image enhancement variational methods for enabling strong cost reduction in OLED-based point-of-care immunofluorescent diagnostic systems. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2932.	2.1	8
30	Multilevel mesh simplification. <i>Visual Computer</i> , 2014, 30, 479-492.	3.5	7
31	Variational Image Restoration with Constraints on Noise Whiteness. <i>Journal of Mathematical Imaging and Vision</i> , 2015, 53, 61-77.	1.3	7
32	BrightNet: A Deep CNN for OLED-Based Point of Care Immunofluorescent Diagnostic Systems. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 6766-6775.	4.7	7
33	A Variational Approach to Additive Image Decomposition into Structure, Harmonic, and Oscillatory Components. <i>SIAM Journal on Imaging Sciences</i> , 2021, 14, 1749-1789.	2.2	7
34	A hybrid multilevel-active set method for large box-constrained linear discrete ill-posed problems. <i>Calcolo</i> , 2011, 48, 89-105.	1.1	5
35	A meshless strategy for shape diameter analysis. <i>Visual Computer</i> , 2017, 33, 303-315.	3.5	5
36	Reconstructing surfaces from sketched 3D irregular curve networks. , 2011, , .		4

#	ARTICLE	IF	CITATIONS
37	Space-Variant TV Regularization for Image Restoration. Lecture Notes in Computational Vision and Biomechanics, 2018, , 160-169.	0.5	4
38	Nonlocal Surface Fairing. Lecture Notes in Computer Science, 2012, , 38-49.	1.3	4
39	JOT: A Variational Signal Decomposition Into Jump, Oscillation and Trend. IEEE Transactions on Signal Processing, 2022, 70, 772-784.	5.3	4
40	Shape Partitioning via L_p Compressed Modes. Journal of Mathematical Imaging and Vision, 2018, 60, 1111-1131.	1.3	3
41	Space-variant generalised Gaussian regularisation for image restoration. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2019, 7, 490-503.	1.9	3
42	A SmartPen for 3D interaction and sketch-based surface modeling. International Journal of Advanced Manufacturing Technology, 2016, 84, 1625.	3.0	2
43	A Forward-Backward Strategy for Handling Non-linearity in Electrical Impedance Tomography. Lecture Notes in Computer Science, 2021, , 635-651.	1.3	2
44	Automatic Parameter Selection Based on Residual Whiteness for Convex Non-convex Variational Restoration. Springer Proceedings in Mathematics and Statistics, 2021, , 95-111.	0.2	2
45	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.	1.3	2
46	Efficient 6DOF tools for free-form surface modelling. Visual Computer, 2004, 20, 554-564.	3.5	1
47	An extended B-Rep solid modeling kernel integrating mesh and NURBS faces. Computer-Aided Design and Applications, 2018, 15, 697-706.	0.6	1
48	Non-Convex Super-Resolution Of Oct Images Via Sparse Representation. , 2021, , .		1
49	Convex Non-convex Variational Models. , 2021, , 1-57.		1
50	Parallel Rendering and Animation of Subdivision Surfaces on the Cell BE Processor. International Journal of Parallel Programming, 2011, 39, 494-521.	1.5	0
51	Convex Non-Convex Segmentation over Surfaces. Lecture Notes in Computer Science, 2017, , 348-360.	1.3	0
52	A Unified Framework for the Restoration of Images Corrupted by Additive White Noise. Lecture Notes in Computer Science, 2017, , 498-510.	1.3	0
53	A Non-convex Nonseparable Approach to Single-Molecule Localization Microscopy. Lecture Notes in Computer Science, 2019, , 498-509.	1.3	0