

Guy Gilboa

List of Publications by Citations

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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.

45
papers

3,234
citations

15
h-index

46
g-index

46
ext. papers

3,655
ext. citations

2.9
avg, IF

5.55
L-index

#	Paper	IF	Citations
45	Nonlocal Operators with Applications to Image Processing. <i>Multiscale Modeling and Simulation</i> , 2009 , 7, 1005-1028	1.8	815
44	Image Sharpening by Flows Based on Triple Well Potentials. <i>Journal of Mathematical Imaging and Vision</i> , 2004 , 20, 73-87	1.6	552
43	Structure-Texture Image Decomposition Modeling, Algorithms, and Parameter Selection. <i>International Journal of Computer Vision</i> , 2006 , 67, 111-136	10.6	407
42	Image enhancement and denoising by complex diffusion processes. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2004 , 26, 1020-36	13.3	309
41	Nonlocal Linear Image Regularization and Supervised Segmentation. <i>Multiscale Modeling and Simulation</i> , 2007 , 6, 595-630	1.8	288
40	Forward-and-backward diffusion processes for adaptive image enhancement and denoising. <i>IEEE Transactions on Image Processing</i> , 2002 , 11, 689-703	8.7	216
39	Variational denoising of partly textured images by spatially varying constraints. <i>IEEE Transactions on Image Processing</i> , 2006 , 15, 2281-9	8.7	116
38	Nonlinear inverse scale space methods. <i>Communications in Mathematical Sciences</i> , 2006 , 4, 179-212	1	95
37	Estimation of optimal PDE-based denoising in the SNR sense. <i>IEEE Transactions on Image Processing</i> , 2006 , 15, 2269-80	8.7	68
36	A Total Variation Spectral Framework for Scale and Texture Analysis. <i>SIAM Journal on Imaging Sciences</i> , 2014 , 7, 1937-1961	1.9	63
35	Spectral Decompositions Using One-Homogeneous Functionals. <i>SIAM Journal on Imaging Sciences</i> , 2016 , 9, 1374-1408	1.9	53
34	Constrained and SNR-Based Solutions for TV-Hilbert Space Image Denoising. <i>Journal of Mathematical Imaging and Vision</i> , 2006 , 26, 217-237	1.6	52
33	Practical, Unified, Motion and Missing Data Treatment in Degraded Video. <i>Journal of Mathematical Imaging and Vision</i> , 2004 , 20, 121-131	1.6	34
32	Nonlinear Spectral Analysis via One-Homogeneous Functionals: Overview and Future Prospects. <i>Journal of Mathematical Imaging and Vision</i> , 2016 , 56, 300-319	1.6	18
31	Spectral Representations of One-Homogeneous Functionals. <i>Lecture Notes in Computer Science</i> , 2015 , 16-27	0.9	18
30	Separation Surfaces in the Spectral TV Domain for Texture Decomposition. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 4260-4270	8.7	11
29	Nonlinear Spectral Image Fusion. <i>Lecture Notes in Computer Science</i> , 2017 , 41-53	0.9	11

28	Rayleigh quotient minimization for absolutely one-homogeneous functionals. <i>Inverse Problems</i> , 2019 , 35, 064003	2.3	10
27	Theoretical Foundations for Discrete Forward-and-Backward Diffusion Filtering. <i>Lecture Notes in Computer Science</i> , 2009 , 527-538	0.9	10
26	Flows Generating Nonlinear Eigenfunctions. <i>Journal of Scientific Computing</i> , 2018 , 75, 859-888	2.3	8
25	Learning Nonlinear Spectral Filters for Color Image Reconstruction 2015 ,		8
24	Energy dissipating flows for solving nonlinear eigenpair problems. <i>Journal of Computational Physics</i> , 2018 , 375, 1138-1158	4.1	7
23	Theoretical Analysis of Flows Estimating Eigenfunctions of One-Homogeneous Functionals. <i>SIAM Journal on Imaging Sciences</i> , 2018 , 11, 1416-1440	1.9	6
22	Introducing the p-Laplacian spectra. <i>Signal Processing</i> , 2020 , 167, 107281	4.4	5
21	Fundamentals of Non-Local Total Variation Spectral Theory. <i>Lecture Notes in Computer Science</i> , 2015 , 66-77	0.9	4
20	Real and Complex PDE-Based Schemes for Image Sharpening and Enhancement. <i>Advances in Imaging and Electron Physics</i> , 2005 , 136, 1-109	0.2	4
19	Multiscale Texture Orientation Analysis Using Spectral Total-Variation Decomposition. <i>Lecture Notes in Computer Science</i> , 2015 , 486-497	0.9	4
18	Robust Recovery of Heavily Degraded Depth Measurements 2016 ,		4
17	A Depth Restoration Occlusionless Temporal Dataset 2016 ,		4
16	Mine-Like Objects detection in Side-Scan Sonar images using a shadows-highlights geometrical features space 2016 ,		4
15	Optoacoustic model-based inversion using anisotropic adaptive total-variation regularization. <i>Photoacoustics</i> , 2019 , 16, 100142	9	4
14	A Discrete Theory and Efficient Algorithms for Forward-and-Backward Diffusion Filtering. <i>Journal of Mathematical Imaging and Vision</i> , 2018 , 60, 1399-1426	1.6	4
13	Learning parametrised regularisation functions via quotient minimisation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016 , 16, 933-936	0.2	3
12	Adaptive LiDAR Sampling and Depth Completion Using Ensemble Variance. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 8900-8912	8.7	3
11	Learning Filter Functions in Regularisers by Minimising Quotients. <i>Lecture Notes in Computer Science</i> , 2017 , 511-523	0.9	3

10	Semi-Inner-Products for Convex Functionals and Their Use in Image Decomposition. <i>Journal of Mathematical Imaging and Vision</i> , 2017 , 57, 26-42	1.6	2
9	Stable Explicit p-Laplacian Flows Based on Nonlinear Eigenvalue Analysis. <i>Lecture Notes in Computer Science</i> , 2019 , 315-327	0.9	2
8	Super-Pixel Sampler: a Data-driven Approach for Depth Sampling and Reconstruction 2020 ,		2
7	Nonlinear Power Method for Computing Eigenvectors of Proximal Operators and Neural Networks. <i>SIAM Journal on Imaging Sciences</i> , 2021 , 14, 1114-1148	1.9	2
6	Modes of Homogeneous Gradient Flows. <i>SIAM Journal on Imaging Sciences</i> , 2021 , 14, 913-945	1.9	2
5	Frame rate reduction of depth cameras by RGB-based depth prediction 2016 ,		1
4	Total-Variation Mode Decomposition. <i>Lecture Notes in Computer Science</i> , 2021 , 52-64	0.9	1
3	Revealing stable and unstable modes of denoisers through nonlinear eigenvalue analysis. <i>Journal of Visual Communication and Image Representation</i> , 2021 , 75, 103041	2.7	1
2	Numerical Methods for Finding Eigenfunctions. <i>Advances in Computer Vision and Pattern Recognition</i> , 2018 , 107-122	1.1	
1	Iterative Methods for Computing Eigenvectors of Nonlinear Operators 2021 , 1-28		