

Guy Gilboa

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1729586/guy-gilboa-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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 | Adaptive LiDAR Sampling and Depth Completion Using Ensemble Variance. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 8900-8912 | 8.7 | 3 |
| 44 | 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 |
| 43 | Total-Variation Mode Decomposition. <i>Lecture Notes in Computer Science</i> , 2021 , 52-64 | 0.9 | 1 |
| 42 | Iterative Methods for Computing Eigenvectors of Nonlinear Operators 2021 , 1-28 | | |
| 41 | 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 |
| 40 | Modes of Homogeneous Gradient Flows. <i>SIAM Journal on Imaging Sciences</i> , 2021 , 14, 913-945 | 1.9 | 2 |
| 39 | Introducing the p-Laplacian spectra. <i>Signal Processing</i> , 2020 , 167, 107281 | 4.4 | 5 |
| 38 | Super-Pixel Sampler: a Data-driven Approach for Depth Sampling and Reconstruction 2020 , | | 2 |
| 37 | Rayleigh quotient minimization for absolutely one-homogeneous functionals. <i>Inverse Problems</i> , 2019 , 35, 064003 | 2.3 | 10 |
| 36 | Stable Explicit p-Laplacian Flows Based on Nonlinear Eigenvalue Analysis. <i>Lecture Notes in Computer Science</i> , 2019 , 315-327 | 0.9 | 2 |
| 35 | Optoacoustic model-based inversion using anisotropic adaptive total-variation regularization. <i>Photoacoustics</i> , 2019 , 16, 100142 | 9 | 4 |
| 34 | Flows Generating Nonlinear Eigenfunctions. <i>Journal of Scientific Computing</i> , 2018 , 75, 859-888 | 2.3 | 8 |
| 33 | Numerical Methods for Finding Eigenfunctions. <i>Advances in Computer Vision and Pattern Recognition</i> , 2018 , 107-122 | 1.1 | |
| 32 | 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 |
| 31 | Energy dissipating flows for solving nonlinear eigenpair problems. <i>Journal of Computational Physics</i> , 2018 , 375, 1138-1158 | 4.1 | 7 |
| 30 | Theoretical Analysis of Flows Estimating Eigenfunctions of One-Homogeneous Functionals. <i>SIAM Journal on Imaging Sciences</i> , 2018 , 11, 1416-1440 | 1.9 | 6 |
| 29 | 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 |

| | | | |
|----|---|-----|-----|
| 28 | Nonlinear Spectral Image Fusion. <i>Lecture Notes in Computer Science</i> , 2017 , 41-53 | 0.9 | 11 |
| 27 | Learning Filter Functions in Regularisers by Minimising Quotients. <i>Lecture Notes in Computer Science</i> , 2017 , 511-523 | 0.9 | 3 |
| 26 | Separation Surfaces in the Spectral TV Domain for Texture Decomposition. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 4260-4270 | 8.7 | 11 |
| 25 | Learning parametrised regularisation functions via quotient minimisation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016 , 16, 933-936 | 0.2 | 3 |
| 24 | 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 |
| 23 | Robust Recovery of Heavily Degraded Depth Measurements 2016 , | | 4 |
| 22 | A Depth Restoration Occlusionless Temporal Dataset 2016 , | | 4 |
| 21 | Frame rate reduction of depth cameras by RGB-based depth prediction 2016 , | | 1 |
| 20 | Mine-Like Objects detection in Side-Scan Sonar images using a shadows-highlights geometrical features space 2016 , | | 4 |
| 19 | Spectral Decompositions Using One-Homogeneous Functionals. <i>SIAM Journal on Imaging Sciences</i> , 2016 , 9, 1374-1408 | 1.9 | 53 |
| 18 | Fundamentals of Non-Local Total Variation Spectral Theory. <i>Lecture Notes in Computer Science</i> , 2015 , 66-77 | 0.9 | 4 |
| 17 | Learning Nonlinear Spectral Filters for Color Image Reconstruction 2015 , | | 8 |
| 16 | Spectral Representations of One-Homogeneous Functionals. <i>Lecture Notes in Computer Science</i> , 2015 , 16-27 | 0.9 | 18 |
| 15 | Multiscale Texture Orientation Analysis Using Spectral Total-Variation Decomposition. <i>Lecture Notes in Computer Science</i> , 2015 , 486-497 | 0.9 | 4 |
| 14 | A Total Variation Spectral Framework for Scale and Texture Analysis. <i>SIAM Journal on Imaging Sciences</i> , 2014 , 7, 1937-1961 | 1.9 | 63 |
| 13 | Nonlocal Operators with Applications to Image Processing. <i>Multiscale Modeling and Simulation</i> , 2009 , 7, 1005-1028 | 1.8 | 815 |
| 12 | Theoretical Foundations for Discrete Forward-and-Backward Diffusion Filtering. <i>Lecture Notes in Computer Science</i> , 2009 , 527-538 | 0.9 | 10 |
| 11 | Nonlocal Linear Image Regularization and Supervised Segmentation. <i>Multiscale Modeling and Simulation</i> , 2007 , 6, 595-630 | 1.8 | 288 |

| | | | |
|----|---|------|-----|
| 10 | Variational denoising of partly textured images by spatially varying constraints. <i>IEEE Transactions on Image Processing</i> , 2006 , 15, 2281-9 | 8.7 | 116 |
| 9 | Estimation of optimal PDE-based denoising in the SNR sense. <i>IEEE Transactions on Image Processing</i> , 2006 , 15, 2269-80 | 8.7 | 68 |
| 8 | Structure-Texture Image Decomposition Modeling, Algorithms, and Parameter Selection. <i>International Journal of Computer Vision</i> , 2006 , 67, 111-136 | 10.6 | 407 |
| 7 | 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 |
| 6 | Nonlinear inverse scale space methods. <i>Communications in Mathematical Sciences</i> , 2006 , 4, 179-212 | 1 | 95 |
| 5 | 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 |
| 4 | Image Sharpening by Flows Based on Triple Well Potentials. <i>Journal of Mathematical Imaging and Vision</i> , 2004 , 20, 73-87 | 1.6 | 552 |
| 3 | 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 |
| 2 | 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 |
| 1 | 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 |