

Jean-Francois Aujol

List of Publications by Year in Descending Order

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Version: 2024-04-27

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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.

41
papers

2,277
citations

23
h-index

42
g-index

42
ext. papers

2,639
ext. citations

3.4
avg, IF

5.32
L-index

#	Paper	IF	Citations
41	Convergence rates of an inertial gradient descent algorithm under growth and flatness conditions. <i>Mathematical Programming</i> , 2021 , 187, 151-193	2.1	2
40	Generative Adversarial Network for Pansharpening With Spectral and Spatial Discriminators. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-11	8.1	7
39	Sketched Learning for Image Denoising. <i>Lecture Notes in Computer Science</i> , 2021 , 281-293	0.9	0
38	A Residual Dense Generative Adversarial Network For Pansharpening With Geometrical Constraints 2020 ,		2
37	Projected Gradient Descent for Non-Convex Sparse Spike Estimation. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 1110-1114	3.2	2
36	The basins of attraction of the global minimizers of the non-convex sparse spike estimation problem. <i>Inverse Problems</i> , 2020 , 36, 045003	2.3	4
35	Convergence rate of inertial ForwardBackward algorithm beyond Nesterov's rule. <i>Mathematical Programming</i> , 2020 , 180, 137-156	2.1	27
34	Rayleigh quotient minimization for absolutely one-homogeneous functionals. <i>Inverse Problems</i> , 2019 , 35, 064003	2.3	10
33	Optimal Convergence Rates for Nesterov Acceleration. <i>SIAM Journal on Optimization</i> , 2019 , 29, 3131-3153		14
32	Diffusion and inpainting of reflectance and height LiDAR orthoimages. <i>Computer Vision and Image Understanding</i> , 2019 , 179, 31-40	4.3	4
31	Variational Methods for Normal Integration. <i>Journal of Mathematical Imaging and Vision</i> , 2018 , 60, 609-633		15
30	Normal Integration: A Survey. <i>Journal of Mathematical Imaging and Vision</i> , 2018 , 60, 576-593	1.6	40
29	Theoretical Analysis of Flows Estimating Eigenfunctions of One-Homogeneous Functionals. <i>SIAM Journal on Imaging Sciences</i> , 2018 , 11, 1416-1440	1.9	6
28	Variational Contrast Enhancement of Gray-Scale and RGB Images. <i>Journal of Mathematical Imaging and Vision</i> , 2017 , 57, 99-116	1.6	13
27	Joint inpainting of depth and reflectance with visibility estimation. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017 , 125, 16-32	11.8	8
26	Image Zoom Completion. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 3505-17	8.7	4
25	Estimation of the Noise Level Function Based on a Nonparametric Detection of Homogeneous Image Regions. <i>SIAM Journal on Imaging Sciences</i> , 2015 , 8, 2622-2661	1.9	29

24	Edge-Based Multi-modal Registration and Application for Night Vision Devices. <i>Journal of Mathematical Imaging and Vision</i> , 2015 , 53, 131-150	1.6	4
23	Adaptive regularization of the NL-means: application to image and video denoising. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 3506-21	8.7	100
22	Regularized Discrete Optimal Transport. <i>SIAM Journal on Imaging Sciences</i> , 2014 , 7, 1853-1882	1.9	55
21	Synthesizing and Mixing Stationary Gaussian Texture Models. <i>SIAM Journal on Imaging Sciences</i> , 2014 , 7, 476-508	1.9	27
20	Locally Parallel Texture Modeling. <i>SIAM Journal on Imaging Sciences</i> , 2011 , 4, 413-447	1.9	34
19	A Bias-Variance Approach for the Nonlocal Means. <i>SIAM Journal on Imaging Sciences</i> , 2011 , 4, 760-788	1.9	56
18	Exemplar-Based Inpainting from a Variational Point of View. <i>SIAM Journal on Mathematical Analysis</i> , 2010 , 42, 1246-1285	1.7	46
17	Mathematical Modeling of Textures: Application to Color Image Decomposition with a Projected Gradient Algorithm. <i>Journal of Mathematical Imaging and Vision</i> , 2010 , 37, 232-248	1.6	34
16	Some First-Order Algorithms for Total Variation Based Image Restoration. <i>Journal of Mathematical Imaging and Vision</i> , 2009 , 34, 307-327	1.6	97
15	Local Scale Measure from the Topographic Map and Application to Remote Sensing Images. <i>Multiscale Modeling and Simulation</i> , 2009 , 8, 1-29	1.8	27
14	The TVL1 Model: A Geometric Point of View. <i>Multiscale Modeling and Simulation</i> , 2009 , 8, 154-189	1.8	63
13	Irregular to Regular Sampling, Denoising, and Deconvolution. <i>Multiscale Modeling and Simulation</i> , 2009 , 7, 1574-1608	1.8	14
12	A Variational Approach to Removing Multiplicative Noise. <i>SIAM Journal on Applied Mathematics</i> , 2008 , 68, 925-946	1.8	370
11	Indexing of satellite images with different resolutions by wavelet features. <i>IEEE Transactions on Image Processing</i> , 2008 , 17, 1465-72	8.7	26
10	Resolution-independent characteristic scale dedicated to satellite images. <i>IEEE Transactions on Image Processing</i> , 2007 , 16, 2503-14	8.7	18
9	Scale Recognition, Regularization Parameter Selection, and Meyer's G Norm in Total Variation Regularization. <i>Multiscale Modeling and Simulation</i> , 2006 , 5, 273-303	1.8	47
8	Color image decomposition and restoration. <i>Journal of Visual Communication and Image Representation</i> , 2006 , 17, 916-928	2.7	55
7	Combining geometrical and textured information to perform image classification. <i>Journal of Visual Communication and Image Representation</i> , 2006 , 17, 1004-1023	2.7	31

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| 6 | Structure-Texture Image Decomposition Modeling, Algorithms, and Parameter Selection. <i>International Journal of Computer Vision</i> , 2006 , 67, 111-136 | 10.6 407 |
| 5 | 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 |
| 4 | Modeling Very Oscillating Signals. Application to Image Processing. <i>Applied Mathematics and Optimization</i> , 2005 , 51, 163-182 | 1.5 66 |
| 3 | Detecting Codimension Two Objects in an Image with Ginzburg-Landau Models. <i>International Journal of Computer Vision</i> , 2005 , 65, 29-42 | 10.6 12 |
| 2 | Dual Norms and Image Decomposition Models. <i>International Journal of Computer Vision</i> , 2005 , 63, 85-104 | 10.6 229 |
| 1 | Image Decomposition into a Bounded Variation Component and an Oscillating Component. <i>Journal of Mathematical Imaging and Vision</i> , 2005 , 22, 71-88 | 1.6 220 |