

Mila Nikolova

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.

54
papers

5,265
citations

23
h-index

55
g-index

55
ext. papers

6,174
ext. citations

2.3
avg, IF

6.26
L-index

#	Paper	IF	Citations
54	Affine Invariant Flows in the Beltrami Framework. <i>Journal of Mathematical Imaging and Vision</i> , 2004 , 20, 89-97	1.6	1373
53	Algorithms for Finding Global Minimizers of Image Segmentation and Denoising Models. <i>SIAM Journal on Applied Mathematics</i> , 2006 , 66, 1632-1648	1.8	724
52	Salt-and-Pepper noise removal by median-type noise detectors and detail-preserving regularization. <i>IEEE Transactions on Image Processing</i> , 2005 , 14, 1479-85	8.7	554
51	Regularizing Flows for Constrained Matrix-Valued Images. <i>Journal of Mathematical Imaging and Vision</i> , 2004 , 20, 99-120	1.6	432
50	Analysis of Half-Quadratic Minimization Methods for Signal and Image Recovery. <i>SIAM Journal of Scientific Computing</i> , 2005 , 27, 937-966	2.6	258
49	Minimizers of Cost-Functions Involving Nonsmooth Data-Fidelity Terms. Application to the Processing of Outliers. <i>SIAM Journal on Numerical Analysis</i> , 2002 , 40, 965-994	2.4	240
48	Fast nonconvex nonsmooth minimization methods for image restoration and reconstruction. <i>IEEE Transactions on Image Processing</i> , 2010 , 19, 3073-88	8.7	174
47	Local Strong Homogeneity of a Regularized Estimator. <i>SIAM Journal on Applied Mathematics</i> , 2000 , 61, 633-658	1.8	174
46	Efficient Reconstruction of Piecewise Constant Images Using Nonsmooth Nonconvex Minimization. <i>SIAM Journal on Imaging Sciences</i> , 2008 , 1, 2-25	1.9	127
45	Two-phase approach for deblurring images corrupted by impulse plus gaussian noise. <i>Inverse Problems and Imaging</i> , 2008 , 2, 187-204	2.1	125
44	Efficient Minimization Methods of Mixed l_2 - l_1 and l_1 - l_1 Norms for Image Restoration. <i>SIAM Journal of Scientific Computing</i> , 2006 , 27, 1881-1902	2.6	121
43	Analysis of the Recovery of Edges in Images and Signals by Minimizing Nonconvex Regularized Least-Squares. <i>Multiscale Modeling and Simulation</i> , 2005 , 4, 960-991	1.8	119
42	Multiplicative Noise Removal Using L_1 Fidelity on Frame Coefficients. <i>Journal of Mathematical Imaging and Vision</i> , 2010 , 36, 201-226	1.6	112
41	Fast Two-Phase Image Deblurring Under Impulse Noise. <i>Journal of Mathematical Imaging and Vision</i> , 2010 , 36, 46-53	1.6	106
40	The equivalence of half-quadratic minimization and the gradient linearization iteration. <i>IEEE Transactions on Image Processing</i> , 2007 , 16, 1623-7	8.7	77
39	Weakly Constrained Minimization: Application to the Estimation of Images and Signals Involving Constant Regions. <i>Journal of Mathematical Imaging and Vision</i> , 2004 , 21, 155-175	1.6	66
38	Fast Hue and Range Preserving Histogram: Specification: Theory and New Algorithms for Color Image Enhancement. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 4087-4100	8.7	58

37	Description of the Minimizers of Least Squares Regularized with ℓ_0 -norm. Uniqueness of the Global Minimizer. <i>SIAM Journal on Imaging Sciences</i> , 2013 , 6, 904-937	1.9	53
36	Denoising of Frame Coefficients Using ℓ_1 Data-Fidelity Term and Edge-Preserving Regularization. <i>Multiscale Modeling and Simulation</i> , 2007 , 6, 547-576	1.8	36
35	Penalized likelihood regression for generalized linear models with non-quadratic penalties. <i>Annals of the Institute of Statistical Mathematics</i> , 2011 , 63, 585-615	1	33
34	On ℓ_1 Data Fitting and Concave Regularization for Image Recovery. <i>SIAM Journal of Scientific Computing</i> , 2013 , 35, A397-A430	2.6	32
33	Model distortions in Bayesian MAP reconstruction. <i>Inverse Problems and Imaging</i> , 2007 , 1, 399-422	2.1	31
32	Exact Histogram Specification for Digital Images Using a Variational Approach. <i>Journal of Mathematical Imaging and Vision</i> , 2013 , 46, 309-325	1.6	27
31	Relationship between the optimal solutions of least squares regularized with ℓ_0 -norm and constrained by k-sparsity. <i>Applied and Computational Harmonic Analysis</i> , 2016 , 41, 237-265	3.1	22
30	A Three-Stage Approach for Segmenting Degraded Color Images: Smoothing, Lifting and Thresholding (SLaT). <i>Journal of Scientific Computing</i> , 2017 , 72, 1313-1332	2.3	21
29	High-order total variation regularization approach for axially symmetric object tomography from a single radiograph. <i>Inverse Problems and Imaging</i> , 2015 , 9, 55-77	2.1	19
28	Estimés localement fortement homogēes. <i>Comptes Rendus Mathematique</i> , 1997 , 325, 665-670		16
27	Energy Minimization Methods 2011 , 139-185		15
26	A Nonlocal Denoising Algorithm for Manifold-Valued Images Using Second Order Statistics. <i>SIAM Journal on Imaging Sciences</i> , 2017 , 10, 416-448	1.9	14
25	Fast ordering algorithm for exact histogram specification. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 5274-83	8.7	13
24	A two-stage method for spectral-spatial classification of hyperspectral images. <i>Journal of Mathematical Imaging and Vision</i> , 2020 , 62, 790-807	1.6	10
23	Multiplicative Noise Cleaning via a Variational Method Involving Curvelet Coefficients. <i>Lecture Notes in Computer Science</i> , 2009 , 282-294	0.9	8
22	A Fast Algorithm for Exact Histogram Specification. Simple Extension to Colour Images. <i>Lecture Notes in Computer Science</i> , 2013 , 174-185	0.9	8
21	Fast and Accurate Multiplicative Decomposition for Fringe Removal in Interferometric Images. <i>IEEE Transactions on Computational Imaging</i> , 2017 , 3, 187-201	4.5	7
20	Bilevel Image Denoising Using Gaussianity Tests. <i>Lecture Notes in Computer Science</i> , 2015 , 117-128	0.9	7

19	Inertial Alternating Generalized ForwardBackward Splitting for Image Colorization. <i>Journal of Mathematical Imaging and Vision</i> , 2019 , 61, 672-690	1.6	6
18	A Characterization of Proximity Operators. <i>Journal of Mathematical Imaging and Vision</i> , 2020 , 62, 773-789	2.6	6
17	Fast Dejittering for Digital Video Frames. <i>Lecture Notes in Computer Science</i> , 2009 , 439-451	0.9	6
16	Nonconvex Optimization for 3-Dimensional Point Source Localization Using a Rotating Point Spread Function. <i>SIAM Journal on Imaging Sciences</i> , 2019 , 12, 259-286	1.9	5
15	One-iteration dejittering of digital video images. <i>Journal of Visual Communication and Image Representation</i> , 2009 , 20, 254-274	2.7	5
14	Analytical bounds on the minimizers of (nonconvex) regularized least-squares. <i>Inverse Problems and Imaging</i> , 2008 , 2, 133-149	2.1	5
13	Modeling anisotropic undersampling of magnetic resonance angiographies and reconstruction of a high-resolution isotropic volume using half-quadratic regularization techniques. <i>Signal Processing</i> , 2004 , 84, 743-762	4.4	4
12	On Bayesian estimation and proximity operators. <i>Applied and Computational Harmonic Analysis</i> , 2021 , 50, 49-72	3.1	3
11	Alternating Structure-Adapted Proximal Gradient Descent for Nonconvex Nonsmooth Block-Regularized Problems. <i>SIAM Journal on Optimization</i> , 2019 , 29, 2053-2078	2	2
10	Semi-explicit Solution and Fast Minimization Scheme for an Energy with ℓ_1 -Fitting and Tikhonov-Like Regularization. <i>Journal of Mathematical Imaging and Vision</i> , 2009 , 34, 32-47	1.6	2
9	Minimization of Cost-Functions with Non-smooth Data-Fidelity Terms to Clean Impulsive Noise. <i>Lecture Notes in Computer Science</i> , 2003 , 391-406	0.9	2
8	Fast Algorithms for ℓ_1 Norm/Mixed ℓ_1 and ℓ_2 Norms for Image Restoration. <i>Lecture Notes in Computer Science</i> , 2005 , 843-851	0.9	2
7	A Variational Approach for Exact Histogram Specification. <i>Lecture Notes in Computer Science</i> , 2012 , 86-97	0.9	2
6	Bounds on the Minimizers of (nonconvex) Regularized Least-Squares		1
5	Energy Minimization Methods		1
4	A Convex Model for Edge-Histogram Specification with Applications to Edge-Preserving Smoothing. <i>Axioms</i> , 2018 , 7, 53	1.6	1
3	Below the Surface of the Non-local Bayesian Image Denoising Method. <i>Lecture Notes in Computer Science</i> , 2017 , 208-220	0.9	0
2	Energy Minimization Methods		1-43

- 1 Counter-Examples for Bayesian MAP Restoration **2007**, 140-152