

Mila Nikolova

List of Publications by Year in descending order

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51
papers

7,074
citations

236925
25
h-index

197818
49
g-index

55
all docs

55
docs citations

55
times ranked

4357
citing authors

#	ARTICLE	IF	CITATIONS
1	An Algorithm for Total Variation Minimization and Applications. Journal of Mathematical Imaging and Vision, 2004, 20, 89-97.	1.3	1,988
2	Algorithms for Finding Global Minimizers of Image Segmentation and Denoising Models. SIAM Journal on Applied Mathematics, 2006, 66, 1632-1648.	1.8	900
3	Salt-and-pepper noise removal by median-type noise detectors and detail-preserving regularization. IEEE Transactions on Image Processing, 2005, 14, 1479-1485.	9.8	843
4	A Variational Approach to Remove Outliers and Impulse Noise. Journal of Mathematical Imaging and Vision, 2004, 20, 99-120.	1.3	544
5	Analysis of Half-Quadratic Minimization Methods for Signal and Image Recovery. SIAM Journal of Scientific Computing, 2005, 27, 937-966.	2.8	341
6	Minimizers of Cost-Functions Involving Nonsmooth Data-Fidelity Terms. Application to the Processing of Outliers. SIAM Journal on Numerical Analysis, 2002, 40, 965-994.	2.3	283
7	Fast Nonconvex Nonsmooth Minimization Methods for Image Restoration and Reconstruction. IEEE Transactions on Image Processing, 2010, 19, 3073-3088.	9.8	219
8	Local Strong Homogeneity of a Regularized Estimator. SIAM Journal on Applied Mathematics, 2000, 61, 633-658.	1.8	216
9	Two-phase approach for deblurring images corrupted by impulse plus gaussian noise. Inverse Problems and Imaging, 2008, 2, 187-204.	1.1	160
10	Efficient Reconstruction of Piecewise Constant Images Using Nonsmooth Nonconvex Minimization. SIAM Journal on Imaging Sciences, 2008, 1, 2-25.	2.2	155
11	Efficient Minimization Methods of Mixed ℓ_2 - ℓ_1 and ℓ_1 - ℓ_1 Norms for Image Restoration. SIAM Journal of Scientific Computing, 2006, 27, 1881-1902.	2.8	152
12	Analysis of the Recovery of Edges in Images and Signals by Minimizing Nonconvex Regularized Least-Squares. Multiscale Modeling and Simulation, 2005, 4, 960-991.	1.6	146
13	Multiplicative Noise Removal Using ℓ_1 Fidelity on Frame Coefficients. Journal of Mathematical Imaging and Vision, 2010, 36, 201-226.	1.3	144
14	Fast Two-Phase Image Deblurring Under Impulse Noise. Journal of Mathematical Imaging and Vision, 2010, 36, 46-53.	1.3	143
15	The Equivalence of Half-Quadratic Minimization and the Gradient Linearization Iteration. IEEE Transactions on Image Processing, 2007, 16, 1623-1627.	9.8	103
16	Weakly Constrained Minimization: Application to the Estimation of Images and Signals Involving Constant Regions. Journal of Mathematical Imaging and Vision, 2004, 21, 155-175.	1.3	87
17	Fast Hue and Range Preserving Histogram Specification: Theory and New Algorithms for Color Image Enhancement. IEEE Transactions on Image Processing, 2014, 23, 4087-4100.	9.8	72
18	Description of the Minimizers of Least Squares Regularized with ℓ_0 -norm. Uniqueness of the Global Minimizer. SIAM Journal on Imaging Sciences, 2013, 6, 904-937.	2.2	60

#	ARTICLE	IF	CITATIONS
19	Penalized likelihood regression for generalized linear models with non-quadratic penalties. Annals of the Institute of Statistical Mathematics, 2011, 63, 585-615.	0.8	47
20	Denoising of Frame Coefficients Using ℓ^1 Data-Fidelity Term and Edge-Preserving Regularization. Multiscale Modeling and Simulation, 2007, 6, 547-576.	1.6	42
21	On ℓ^1 Data Fitting and Concave Regularization for Image Recovery. SIAM Journal of Scientific Computing, 2013, 35, A397-A430.	2.8	42
22	Model distortions in Bayesian MAP reconstruction. Inverse Problems and Imaging, 2007, 1, 399-422.	1.1	37
23	A Three-Stage Approach for Segmenting Degraded Color Images: Smoothing, Lifting and Thresholding (SLaT). Journal of Scientific Computing, 2017, 72, 1313-1332.	2.3	36
24	Exact Histogram Specification for Digital Images Using a Variational Approach. Journal of Mathematical Imaging and Vision, 2013, 46, 309-325.	1.3	34
25	Relationship between the optimal solutions of least squares regularized with ℓ^0 -norm and constrained by k -sparsity. Applied and Computational Harmonic Analysis, 2016, 41, 237-265.	2.2	28
26	Fast Ordering Algorithm for Exact Histogram Specification. IEEE Transactions on Image Processing, 2014, 23, 5274-5283.	9.8	23
27	High-order total variation regularization approach for axially symmetric object tomography from a single radiograph. Inverse Problems and Imaging, 2015, 9, 55-77.	1.1	23
28	A two-stage method for spectral-spatial classification of hyperspectral images. Journal of Mathematical Imaging and Vision, 2020, 62, 790-807.	1.3	21
29	A Nonlocal Denoising Algorithm for Manifold-Valued Images Using Second Order Statistics. SIAM Journal on Imaging Sciences, 2017, 10, 416-448.	2.2	20
30	Energy Minimization Methods. , 2011, , 139-185.		20
31	Alternating Structure-Adapted Proximal Gradient Descent for Nonconvex Nonsmooth Block-Regularized Problems. SIAM Journal on Optimization, 2019, 29, 2053-2078.	2.0	12
32	A Characterization of Proximity Operators. Journal of Mathematical Imaging and Vision, 2020, 62, 773-789.	1.3	12
33	Fast and Accurate Multiplicative Decomposition for Fringe Removal in Interferometric Images. IEEE Transactions on Computational Imaging, 2017, 3, 187-201.	4.4	11
34	Multiplicative Noise Cleaning via a Variational Method Involving Curvelet Coefficients. Lecture Notes in Computer Science, 2009, , 282-294.	1.3	10
35	Nonconvex Optimization for 3-Dimensional Point Source Localization Using a Rotating Point Spread Function. SIAM Journal on Imaging Sciences, 2019, 12, 259-286.	2.2	8
36	Bilevel Image Denoising Using Gaussianity Tests. Lecture Notes in Computer Science, 2015, , 117-128.	1.3	8

#	ARTICLE	IF	CITATIONS
37	Energy Minimization Methods. , 2015, , 157-204.		8
38	Inertial Alternating Generalized Forward-Backward Splitting for Image Colorization. Journal of Mathematical Imaging and Vision, 2019, 61, 672-690.	1.3	7
39	Analytical bounds on the minimizers of (nonconvex) regularized least-squares. Inverse Problems and Imaging, 2008, 2, 133-149.	1.1	7
40	One-iteration dejittering of digital video images. Journal of Visual Communication and Image Representation, 2009, 20, 254-274.	2.8	6
41	Fast Dejittering for Digital Video Frames. Lecture Notes in Computer Science, 2009, , 439-451.	1.3	6
42	Modeling anisotropic undersampling of magnetic resonance angiographies and reconstruction of a high-resolution isotropic volume using half-quadratic regularization techniques. Signal Processing, 2004, 84, 743-762.	3.7	5
43	On Bayesian estimation and proximity operators. Applied and Computational Harmonic Analysis, 2021, 50, 49-72.	2.2	4
44	Minimization of Cost-Functions with Non-smooth Data-Fidelity Terms to Clean Impulsive Noise. Lecture Notes in Computer Science, 2003, , 391-406.	1.3	2
45	Fast Algorithms for l1 Norm/Mixed l1 and l2 Norms for Image Restoration. Lecture Notes in Computer Science, 2005, , 843-851.	1.3	2
46	Semi-explicit Solution and Fast Minimization Scheme for Energy with λ 1-Fitting and Tikhonov-Like Regularization. Journal of Mathematical Imaging and Vision, 2009, 34, 32-47.	1.3	2
47	A Convex Model for Edge-Histogram Specification with Applications to Edge-Preserving Smoothing. Axioms, 2018, 7, 53.	1.9	2
48	Below the Surface of the Non-local Bayesian Image Denoising Method. Lecture Notes in Computer Science, 2017, , 208-220.	1.3	2
49	Bounds on the Minimizers of (nonconvex) Regularized Least-Squares. , 2007, , 496-507.		1
50	Energy Minimization Methods. , 2014, , 1-43.		0
51	The Synergy Between Different Colour Spaces For Degraded Colour Images Segmentation. , 2018, , .		0