

Antoni Buades

List of Publications by Year in descending order

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82
papers

11,864
citations

279798
23
h-index

265206
42
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82
all docs

82
docs citations

82
times ranked

8982
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Image Denoising Algorithms, with a New One. Multiscale Modeling and Simulation, 2005, 4, 490-530.	1.6	3,516
2	A Non-Local Algorithm for Image Denoising. , 0, , .		3,513
3	Nonlocal Image and Movie Denoising. International Journal of Computer Vision, 2008, 76, 123-139.	15.6	640
4	Non-Local Means Denoising. Image Processing on Line, 0, 1, 208-212.	0.0	616
5	Image Denoising Methods. A New Nonlocal Principle. SIAM Review, 2010, 52, 113-147.	9.5	358
6	Diffusion Weighted Image Denoising Using Overcomplete Local PCA. PLoS ONE, 2013, 8, e73021.	2.5	299
7	Color demosaicking by local directional interpolation and nonlocal adaptive thresholding. Journal of Electronic Imaging, 2011, 20, 023016.	0.9	243
8	A Nonlocal Bayesian Image Denoising Algorithm. SIAM Journal on Imaging Sciences, 2013, 6, 1665-1688.	2.2	238
9	New methods for MRI denoising based on sparseness and self-similarity. Medical Image Analysis, 2012, 16, 18-27.	11.6	224
10	Non-local MRI upsampling. Medical Image Analysis, 2010, 14, 784-792.	11.6	218
11	Secrets of image denoising cuisine. Acta Numerica, 2012, 21, 475-576.	10.7	206
12	The staircasing effect in neighborhood filters and its solution. IEEE Transactions on Image Processing, 2006, 15, 1499-1505.	9.8	187
13	Fast Cartoon + Texture Image Filters. IEEE Transactions on Image Processing, 2010, 19, 1978-1986.	9.8	172
14	MRI noise estimation and denoising using non-local PCA. Medical Image Analysis, 2015, 22, 35-47.	11.6	138
15	Neighborhood filters and PDEs. Numerische Mathematik, 2006, 105, 1-34.	1.9	119
16	Self-Similarity Driven Color Demosaicking. IEEE Transactions on Image Processing, 2009, 18, 1192-1202.	9.8	113
17	Denoising image sequences does not require motion estimation. , 0, , .		84
18	MRI Superresolution Using Self-Similarity and Image Priors. International Journal of Biomedical Imaging, 2010, 2010, 1-11.	3.9	79

#	ARTICLE	IF	CITATIONS
19	Patch-Based Video Denoising With Optical Flow Estimation. IEEE Transactions on Image Processing, 2016, 25, 2573-2586.	9.8	75
20	A survey of pansharpening methods with a new band-decoupled variational model. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 125, 78-105.	11.1	71
21	A Nonlocal Variational Model for Pansharpening Image Fusion. SIAM Journal on Imaging Sciences, 2014, 7, 761-796.	2.2	69
22	Implementation of the "Non-Local Bayes" (NL-Bayes) Image Denoising Algorithm. Image Processing on Line, 0, 3, 1-42.	0.0	65
23	Self-Similarity and Spectral Correlation Adaptive Algorithm for Color Demosaicking. IEEE Transactions on Image Processing, 2014, 23, 4031-4040.	9.8	52
24	Boosting monte carlo rendering by ray histogram fusion. ACM Transactions on Graphics, 2014, 33, 1-15.	7.2	45
25	Image Denoising By Non-Local Averaging. , 0, , .		43
26	Robust and Dense Depth Estimation for Light Field Images. IEEE Transactions on Image Processing, 2017, 26, 1873-1886.	9.8	33
27	Nonparametric noise estimation method for raw images. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 863.	1.5	31
28	Self-similarity-based image denoising. Communications of the ACM, 2011, 54, 109-117.	4.5	30
29	Cartoon+Texture Image Decomposition. Image Processing on Line, 0, 1, 200-207.	0.0	25
30	Reliable Multiscale and Multiwindow Stereo Matching. SIAM Journal on Imaging Sciences, 2015, 8, 888-915.	2.2	22
31	A non-parametric approach for the estimation of intensity-frequency dependent noise. , 2014, , .		20
32	Analysis and Extension of the Ponomarenko et al. Method, Estimating a Noise Curve from a Single Image. Image Processing on Line, 0, 3, 173-197.	0.0	20
33	Nonparametric Multiscale Blind Estimation of Intensity-Frequency-Dependent Noise. IEEE Transactions on Image Processing, 2015, 24, 3162-3175.	9.8	19
34	Photographing Paintings by Image Fusion. SIAM Journal on Imaging Sciences, 2012, 5, 1055-1087.	2.2	17
35	Restoration of Pansharpened Images by Conditional Filtering in the PCA Domain. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 442-446.	3.1	17
36	Backlit images enhancement using global tone mappings and image fusion. IET Image Processing, 2020, 14, 211-219.	2.5	16

#	ARTICLE	IF	CITATIONS
37	Self-similarity Driven Demosaicking. Image Processing on Line, 0, 1, 51-56.	0.0	16
38	Directional Filters for Cartoon + Texture Image Decomposition. Image Processing on Line, 0, 6, 75-88.	0.0	15
39	Directional Filters for Color Cartoon+Texture Image and Video Decomposition. Journal of Mathematical Imaging and Vision, 2016, 55, 125-135.	1.3	14
40	Ghosting-free DCT based multi-exposure image fusion. Signal Processing: Image Communication, 2019, 78, 409-425.	3.2	14
41	Conditional image diffusion. Inverse Problems and Imaging, 2007, 1, 593-608.	1.1	13
42	Analysis and Extension of the Percentile Method, Estimating a Noise Curve from a Single Image. Image Processing on Line, 0, 3, 332-359.	0.0	12
43	Fattening Free Block Matching. Journal of Mathematical Imaging and Vision, 2011, 41, 109-121.	1.3	11
44	CFA Video Denoising and Demosaicking Chain via Spatio-Temporal Patch-Based Filtering. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 4143-4157.	8.3	11
45	A Demosaicking Algorithm with Adaptive Inter-Channel Correlation. Image Processing on Line, 0, 5, 311-327.	0.0	11
46	Topology Preserving Linear Filtering Applied to Medical Imaging. SIAM Journal on Imaging Sciences, 2008, 1, 26-50.	2.2	10
47	Enhancement of noisy and compressed videos by optical flow and non-local denoising. IEEE Transactions on Circuits and Systems for Video Technology, 2020, , 1-1.	8.3	10
48	Multiscale Detection of Circles, Ellipses and Line Segments, Robust to Noise and Blur. IEEE Access, 2021, 9, 25554-25578.	4.2	10
49	Implementation of Nonlocal Pansharpening Image Fusion. Image Processing on Line, 0, 4, 1-15.	0.0	9
50	Motion-Compensated Spatio-Temporal Filtering for Multi-Image and Multimodal Super-Resolution. International Journal of Computer Vision, 2019, 127, 1474-1500.	15.6	8
51	Semi-dense and robust image registration by shift adapted weighted aggregation and variational completion. Image and Vision Computing, 2019, 89, 258-275.	4.5	8
52	Dimensionality of color space in natural images. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 203.	1.5	7
53	Local Smoothing Neighborhood Filters. , 2015, , 1599-1643.		6
54	Joint Contours, Corner and T-Junction Detection: An Approach Inspired by the Mammal Visual System. Journal of Mathematical Imaging and Vision, 2018, 60, 341-354.	1.3	5

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55	Video Denoising with Optical Flow Estimation. Image Processing on Line, 0, 8, 142-166.	0.0	5
56	Adaptive blotches detection for film restoration. , 2010, , .		4
57	Joint Denoising and Demosaicking of Raw Video Sequences. , 2018, , .		4
58	Contours, Corners and T-Junctions Detection Algorithm. Image Processing on Line, 0, 8, 24-36.	0.0	4
59	Local Smoothing Neighborhood Filters. , 2011, , 1159-1201.		3
60	How to explore the patch space. Inverse Problems and Imaging, 2013, 7, 813-838.	1.1	3
61	Image Color Cube Dimensional Filtering and Visualization. Image Processing on Line, 0, 1, 57-69.	0.0	3
62	Denoising of Noisy and Compressed Video Sequences. , 2017, , .		3
63	Reliable light field multiwindow disparity estimation. , 2016, , .		2
64	Obtaining High Quality Photographs of Paintings by Image Fusion. Image Processing on Line, 0, 5, 159-175.	0.0	2
65	Analysis and Extension of the PCA Method, Estimating a Noise Curve from a Single Image. Image Processing on Line, 0, 6, 365-390.	0.0	2
66	Fast video search and indexing for video surveillance applications with optimally controlled False Alarm Rates. , 2011, , .		1
67	Disparity adapted weighted aggregation for local stereo. , 2017, , .		1
68	Dual domain video denoising with optical flow estimation. , 2017, , .		1
69	Filtering and Interpolation of Inaccurate and Incomplete Depth Maps. , 2018, , .		1
70	Variational Densification and Refinement of Registration Maps. SIAM Journal on Imaging Sciences, 2021, 14, 879-912.	2.2	1
71	Flow Based Video Super-Resolution with Spatio-temporal Patch Similarity. , 2017, , .		1
72	Local Smoothing Neighborhood Filters. , 2014, , 1-39.		0

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73	Visual system inspired algorithm for contours, corner and T-junction detection. , 2016, , .		0
74	Pansharpening by a nonlocal channel-decoupled variational method. , 2016, , .		0
75	Patch-Based Methods for Video Denoising. Advances in Computer Vision and Pattern Recognition, 2018, , 175-205.	1.3	0
76	Accelerating Monte Carlo Renderers by Ray Histogram Fusion. Image Processing on Line, 0, 5, 55-72.	0.0	0
77	Nonlocal Regularizing Constraints in Variational Optical Flow. , 2017, , .		0
78	Matching of Line Segment for Stereo Computation. , 2017, , .		0
79	Cost Adaptive Window for Local Stereo Matching. , 2017, , .		0
80	DCT based Multi Exposure Image Fusion. , 2019, , .		0
81	Variational Temporal Optical Flow for Multi-exposure Video. , 2022, , .		0
82	Efficient joint noise removal and multi exposure fusion. PLoS ONE, 2022, 17, e0265464.	2.5	0