

Antoni Buades

List of Publications by Year in descending order

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82
papers

11,864
citations

279487

23
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42
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82
all docs

82
docs citations

82
times ranked

8982
citing authors

#	ARTICLE	IF	CITATIONS
1	Variational Temporal Optical Flow for Multi-exposure Video. , 2022, , .		0
2	Efficient joint noise removal and multi exposure fusion. PLoS ONE, 2022, 17, e0265464.	1.1	0
3	Multiscale Detection of Circles, Ellipses and Line Segments, Robust to Noise and Blur. IEEE Access, 2021, 9, 25554-25578.	2.6	10
4	Variational Densification and Refinement of Registration Maps. SIAM Journal on Imaging Sciences, 2021, 14, 879-912.	1.3	1
5	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.	5.6	10
6	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.	5.6	11
7	Backlit images enhancement using global tone mappings and image fusion. IET Image Processing, 2020, 14, 211-219.	1.4	16
8	Motion-Compensated Spatio-Temporal Filtering for Multi-Image and Multimodal Super-Resolution. International Journal of Computer Vision, 2019, 127, 1474-1500.	10.9	8
9	Ghosting-free DCT based multi-exposure image fusion. Signal Processing: Image Communication, 2019, 78, 409-425.	1.8	14
10	Semi-dense and robust image registration by shift adapted weighted aggregation and variational completion. Image and Vision Computing, 2019, 89, 258-275.	2.7	8
11	Restoration of Pansharpened Images by Conditional Filtering in the PCA Domain. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 442-446.	1.4	17
12	DCT based Multi Exposure Image Fusion. , 2019, , .		0
13	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.	0.8	5
14	Filtering and Interpolation of Inaccurate and Incomplete Depth Maps. , 2018, , .		1
15	Joint Denoising and Demosaicking of Raw Video Sequences. , 2018, , .		4
16	Patch-Based Methods for Video Denoising. Advances in Computer Vision and Pattern Recognition, 2018, , 175-205.	0.9	0
17	Robust and Dense Depth Estimation for Light Field Images. IEEE Transactions on Image Processing, 2017, 26, 1873-1886.	6.0	33
18	Disparity adapted weighted aggregation for local stereo. , 2017, , .		1

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19	Dual domain video denoising with optical flow estimation. , 2017, , .		1
20	A survey of pansharpening methods with a new band-decoupled variational model. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 125, 78-105.	4.9	71
21	Denoising of Noisy and Compressed Video Sequences. , 2017, , .		3
22	Flow Based Video Super-Resolution with Spatio-temporal Patch Similarity. , 2017, , .		1
23	Nonlocal Regularizing Constraints in Variational Optical Flow. , 2017, , .		0
24	Matching of Line Segment for Stereo Computation. , 2017, , .		0
25	Cost Adaptive Window for Local Stereo Matching. , 2017, , .		0
26	Visual system inspired algorithm for contours, corner and T-junction detection. , 2016, , .		0
27	Patch-Based Video Denoising With Optical Flow Estimation. IEEE Transactions on Image Processing, 2016, 25, 2573-2586.	6.0	75
28	Reliable light field multiwindow disparity estimation. , 2016, , .		2
29	Pansharpening by a nonlocal channel-decoupled variational method. , 2016, , .		0
30	Directional Filters for Color Cartoon+Texture Image and Video Decomposition. Journal of Mathematical Imaging and Vision, 2016, 55, 125-135.	0.8	14
31	MRI noise estimation and denoising using non-local PCA. Medical Image Analysis, 2015, 22, 35-47.	7.0	138
32	Reliable Multiscale and Multiwindow Stereo Matching. SIAM Journal on Imaging Sciences, 2015, 8, 888-915.	1.3	22
33	Nonparametric Multiscale Blind Estimation of Intensity-Frequency-Dependent Noise. IEEE Transactions on Image Processing, 2015, 24, 3162-3175.	6.0	19
34	Local Smoothing Neighborhood Filters. , 2015, , 1599-1643.		6
35	Local Smoothing Neighborhood Filters. , 2014, , 1-39.		0
36	A non-parametric approach for the estimation of intensity-frequency dependent noise. , 2014, , .		20

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37	Nonparametric noise estimation method for raw images. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 863.	0.8	31
38	A Nonlocal Variational Model for Pansharpening Image Fusion. SIAM Journal on Imaging Sciences, 2014, 7, 761-796.	1.3	69
39	Self-Similarity and Spectral Correlation Adaptive Algorithm for Color Demosaicking. IEEE Transactions on Image Processing, 2014, 23, 4031-4040.	6.0	52
40	Boosting monte carlo rendering by ray histogram fusion. ACM Transactions on Graphics, 2014, 33, 1-15.	4.9	45
41	A Nonlocal Bayesian Image Denoising Algorithm. SIAM Journal on Imaging Sciences, 2013, 6, 1665-1688.	1.3	238
42	Diffusion Weighted Image Denoising Using Overcomplete Local PCA. PLoS ONE, 2013, 8, e73021.	1.1	299
43	How to explore the patch space. Inverse Problems and Imaging, 2013, 7, 813-838.	0.6	3
44	Photographing Paintings by Image Fusion. SIAM Journal on Imaging Sciences, 2012, 5, 1055-1087.	1.3	17
45	Secrets of image denoising cuisine. Acta Numerica, 2012, 21, 475-576.	6.3	206
46	New methods for MRI denoising based on sparseness and self-similarity. Medical Image Analysis, 2012, 16, 18-27.	7.0	224
47	Color demosaicking by local directional interpolation and Nonlocal adaptive thresholding. Journal of Electronic Imaging, 2011, 20, 023016.	0.5	243
48	Local Smoothing Neighborhood Filters. , 2011, , 1159-1201.		3
49	Self-similarity-based image denoising. Communications of the ACM, 2011, 54, 109-117.	3.3	30
50	Dimensionality of color space in natural images. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 203.	0.8	7
51	Fattening Free Block Matching. Journal of Mathematical Imaging and Vision, 2011, 41, 109-121.	0.8	11
52	Fast video search and indexing for video surveillance applications with optimally controlled False Alarm Rates. , 2011, , .		1
53	Non-local MRI upsampling. Medical Image Analysis, 2010, 14, 784-792.	7.0	218
54	Adaptive blotches detection for film restoration. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
55	Fast Cartoon + Texture Image Filters. IEEE Transactions on Image Processing, 2010, 19, 1978-1986.	6.0	172
56	MRI Superresolution Using Self-Similarity and Image Priors. International Journal of Biomedical Imaging, 2010, 2010, 1-11.	3.0	79
57	Image Denoising Methods. A New Nonlocal Principle. SIAM Review, 2010, 52, 113-147.	4.2	358
58	Self-Similarity Driven Color Demosaicking. IEEE Transactions on Image Processing, 2009, 18, 1192-1202.	6.0	113
59	Nonlocal Image and Movie Denoising. International Journal of Computer Vision, 2008, 76, 123-139.	10.9	640
60	Topology Preserving Linear Filtering Applied to Medical Imaging. SIAM Journal on Imaging Sciences, 2008, 1, 26-50.	1.3	10
61	Conditional image diffusion. Inverse Problems and Imaging, 2007, 1, 593-608.	0.6	13
62	The staircasing effect in neighborhood filters and its solution. IEEE Transactions on Image Processing, 2006, 15, 1499-1505.	6.0	187
63	Neighborhood filters and PDEs. Numerische Mathematik, 2006, 105, 1-34.	0.9	119
64	A Review of Image Denoising Algorithms, with a New One. Multiscale Modeling and Simulation, 2005, 4, 490-530.	0.6	3,516
65	Image Denoising By Non-Local Averaging. , 0, , .		43
66	A Non-Local Algorithm for Image Denoising. , 0, , .		3,513
67	Denoising image sequences does not require motion estimation. , 0, , .		84
68	Self-similarity Driven Demosaicking. Image Processing on Line, 0, 1, 51-56.	0.0	16
69	Non-Local Means Denoising. Image Processing on Line, 0, 1, 208-212.	0.0	616
70	Image Color Cube Dimensional Filtering and Visualization. Image Processing on Line, 0, 1, 57-69.	0.0	3
71	Cartoon+Texture Image Decomposition. Image Processing on Line, 0, 1, 200-207.	0.0	25
72	Implementation of the "Non-Local Bayes" (NL-Bayes) Image Denoising Algorithm. Image Processing on Line, 0, 3, 1-42.	0.0	65

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73	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
74	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
75	Implementation of Nonlocal Pansharpening Image Fusion. Image Processing on Line, 0, 4, 1-15.	0.0	9
76	A Demosaicking Algorithm with Adaptive Inter-Channel Correlation. Image Processing on Line, 0, 5, 311-327.	0.0	11
77	Obtaining High Quality Photographs of Paintings by Image Fusion. Image Processing on Line, 0, 5, 159-175.	0.0	2
78	Directional Filters for Cartoon + Texture Image Decomposition. Image Processing on Line, 0, 6, 75-88.	0.0	15
79	Contours, Corners and T-Junctions Detection Algorithm. Image Processing on Line, 0, 8, 24-36.	0.0	4
80	Video Denoising with Optical Flow Estimation. Image Processing on Line, 0, 8, 142-166.	0.0	5
81	Accelerating Monte Carlo Renderers by Ray Histogram Fusion. Image Processing on Line, 0, 5, 55-72.	0.0	0
82	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