AndrÃ©s Almansa

List of Publications by Year
in descending order

60 papers	1,145 citations	567281 15 h-index	477307 29 g-index
62 all docs	62 docs citations	62 times ranked	846 citing authors

#	Article	IF	Citations
1	Video Inpainting of Complex Scenes. SIAM Journal on Imaging Sciences, 2014, 7, 1993-2019.	2.2	193
2	Vanishing point detection without any a priori information. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 502-507.	13.9	128
3	Fingerprint enhancement by shape adaptation of scale-space operators with automatic scale selection. IEEE Transactions on Image Processing, 2000, 9, 2027-2042.	9.8	88
4	A TV Based Restoration Model with Local Constraints. Journal of Scientific Computing, 2008, 34, 209-236.	2.3	59
5	Interpolation of digital elevation models using AMLE and related methods. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 314-325.	6.3	43
6	Non-Local Patch-Based Image Inpainting. Image Processing on Line, 0, 7, 373-385.	0.0	42
7	Meaningful Matches in Stereovision. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 930-942.	13.9	38
8	On Regression Losses for Deep Depth Estimation. , 2018, , .		36
9	The Non-parametric Sub-pixel Local Point Spread Function Estimation Is a Well Posed Problem. International Journal of Computer Vision, 2012, 96, 175-194.	15.6	34
10	Fingerprint image matching by minimization of a thin-plate energy using a two-step algorithm with auxiliary variables. , 0, , .		30
11	Multitask Learning of Height and Semantics From Aerial Images. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1391-1395.	3.1	30
12	A Bayesian Hyperprior Approach for Joint Image Denoising and Interpolation, With an Application to HDR Imaging. IEEE Transactions on Computational Imaging, 2017, 3, 633-646.	4.4	29
13	How Accurate Can Block Matches Be in Stereo Vision?. SIAM Journal on Imaging Sciences, 2011, 4, 472-500.	2.2	26
14	Bayesian Imaging Using Plug & Play Priors: When Langevin Meets Tweedie. SIAM Journal on Imaging Sciences, 2022, 15, 701-737.	2.2	26
15	Single shot high dynamic range imaging using piecewise linear estimators. , 2014, , .		24
16	Deep Depth from Defocus: How Can Defocus Blur Improve 3D Estimation Using Dense Neural Networks?. Lecture Notes in Computer Science, 2019, , 307-323.	1.3	23
17	Automatic low baseline stereo in urban areas. Inverse Problems and Imaging, 2007, 1, 319-348.	1.1	22
18	Towards fast, generic video inpainting. , 2013, , .		19

#	Article	IF	Citations
19	Restoration and Zoom of Irregularly Sampled, Blurred, and Noisy Images by Accurate Total Variation Minimization with Local Constraints. Multiscale Modeling and Simulation, 2006, 5, 235-272.	1.6	18
20	Motion-consistent video inpainting. , 2017, , .		17
21	Irregular to Regular Sampling, Denoising, and Deconvolution. Multiscale Modeling and Simulation, 2009, 7, 1574-1608.	1.6	16
22	Automatically finding clusters in normalized cuts. Pattern Recognition, 2011, 44, 1372-1386.	8.1	16
23	Non Local Point Set Surfaces. , 2012, , .		16
24	Simultaneous HDR image reconstruction and denoising for dynamic scenes. , 2013, , .		16
25	Measuring and Improving Image Resolution by Adaptation of the Reciprocal Cell. Journal of Mathematical Imaging and Vision, 2004, 21, 235-279.	1.3	13
26	Object removal from complex videos using a few annotations. Computational Visual Media, 2019, 5, 267-291.	17.5	13
27	Subpixel Point Spread Function Estimation from Two Photographs at Different Distances. SIAM Journal on Imaging Sciences, 2012, 5, 1234-1260.	2.2	11
28	Fast and Accurate Multiplicative Decomposition for Fringe Removal in Interferometric Images. IEEE Transactions on Computational Imaging, 2017, 3, 187-201.	4.4	11
29	Non-parametric Sub-pixel Local Point Spread Function Estimation. Image Processing on Line, 0, 2, 8-21.	0.0	11
30	Solving Inverse Problems by Joint Posterior Maximization with Autoencoding Prior. SIAM Journal on Imaging Sciences, 2022, 15, 822-859.	2.2	11
31	Robust Multi-image Processing with Optimal Sparse Regularization. Journal of Mathematical Imaging and Vision, 2015, 51, 413-429.	1.3	10
32	Constrained Anisotropic Diffusion and some Applications. , 2006, , .		7
33	Robust Automatic Line Scratch Detection in Films. IEEE Transactions on Image Processing, 2014, 23, 1240-1254.	9.8	6
34	Adaptive line scratch detection in degraded films. , 2012, , .		5
35	Sparsity-based restoration of SMOS images in the presence of outliers. , 2012, , .		4
36	SMOS images restoration from L1A data: A sparsity-based variational approach. , 2014, , .		4

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37	Penalizing local correlations in the residual improves image denoising performance. , 2016, , .		4
38	Processing Simple Geometric Attributes with Autoencoders. Journal of Mathematical Imaging and Vision, 2020, 62, 293-312.	1.3	4
39	Outlier Removal Power of the L1-Norm Super-Resolution. Lecture Notes in Computer Science, 2013, , 198-209.	1.3	4
40	Review of low-baseline stereo algorithms and benchmarks. Proceedings of SPIE, 2010, , .	0.8	3
41	Fast plane detection in disparity maps. , 2010, , .		3
42	Temporal filtering of line scratch detections in degraded films. , 2013, , .		3
43	A Sparsity-Based Variational Approach for the Restoration of SMOS Images From L1A Data. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2811-2826.	6.3	3
44	Morphological Shape Context: Semi-locality and Robust Matching in Shape Recognition. Lecture Notes in Computer Science, 2009, , 129-136.	1.3	2
45	Discarding moving objects in quasi-simultaneous stereovision. , 2010, , .		2
46	Sub-pixel stereo matching. , 2010, , .		2
47	On the Role of Contrast and Regularity in Perceptual Boundary Saliency. Journal of Mathematical Imaging and Vision, 2014, 48, 396-412.	1.3	2
48	Covariance Trees for 2D and 3D Processing. , 2014, , .		2
49	Resolution-Preserving Speckle Reduction of SAR Images: The Benefits of Speckle Decorrelation and Targets Extraction. , 2019, , .		2
50	Boruvka Meets Nearest Neighbors. Lecture Notes in Computer Science, 2013, , 560-567.	1.3	2
51	Deblurring of irregularly sampled images by TV regularization in a spline space. , 2010, , .		1
52	Fast epipolar resampling of trinocular linear scanners images using Chandrayaan-1 TMC dataset. , 2013, , .		1
53	A Correlation-Based Dissimilarity Measure for Noisy Patches. Lecture Notes in Computer Science, 2017, , 184-195.	1.3	1
54	Joint denoising and decompression: A patch-based Bayesian approach. , 2017, , .		1

#	Article	IF	Citations
55	Removing objects from videos with a few strokes. , 2018, , .		1
56	Finding Edges by a Contrario Detection of Periodic Subsequences. Lecture Notes in Computer Science, 2012, , 773-780.	1.3	1
57	Recovering the Subpixel PSF from Two Photographs at Different Distances. Image Processing on Line, 0, 3, 242-251.	0.0	1
58	Lunar impact crater modeling using trinocular stereoscopic depth inpainting. , 2013, , .		0
59	Finding contrasted and regular edges by a contrario detection of periodic subsequences. Pattern Recognition, 2014, 47, 72-79.	8.1	0
60	Demystifying the Asymptotic Behavior of Global Denoising. Journal of Mathematical Imaging and Vision, 2017, 59, 456-480.	1.3	0