AndrÃ©s Almansa

List of Publications by Year
in descending order

60 papers	**1,145** citations	567144 **15** h-index	477173 **29** g-index
62 all docs	**62** docs citations	**62** times ranked	**846** citing authors

#	Article	IF	Citations
1	Bayesian Imaging Using Plug & Play Priors: When Langevin Meets Tweedie. SIAM Journal on Imaging Sciences, 2022, 15, 701-737.	1.3	26
2	Solving Inverse Problems by Joint Posterior Maximization with Autoencoding Prior. SIAM Journal on Imaging Sciences, 2022, 15, 822-859.	1.3	11
3	Processing Simple Geometric Attributes with Autoencoders. Journal of Mathematical Imaging and Vision, 2020, 62, 293-312.	0.8	4
4	Multitask Learning of Height and Semantics From Aerial Images. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1391-1395.	1.4	30
5	Object removal from complex videos using a few annotations. Computational Visual Media, 2019, 5, 267-291.	10.8	13
6	Deep Depth from Defocus: How Can Defocus Blur Improve 3D Estimation Using Dense Neural Networks?. Lecture Notes in Computer Science, 2019, , 307-323.	1.0	23
7	Resolution-Preserving Speckle Reduction of SAR Images: The Benefits of Speckle Decorrelation and Targets Extraction. , 2019, , .		2
8	Removing objects from videos with a few strokes. , 2018, , .		1
9	On Regression Losses for Deep Depth Estimation. , 2018, , .		36
10	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.	2.7	3
11	Fast and Accurate Multiplicative Decomposition for Fringe Removal in Interferometric Images. IEEE Transactions on Computational Imaging, 2017, 3, 187-201.	2.6	11
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.	2.6	29
13	A Correlation-Based Dissimilarity Measure for Noisy Patches. Lecture Notes in Computer Science, 2017, , 184-195.	1.0	1
14	Demystifying the Asymptotic Behavior of Global Denoising. Journal of Mathematical Imaging and Vision, 2017, 59, 456-480.	0.8	0
15	Joint denoising and decompression: A patch-based Bayesian approach. , 2017, , .		1
16	Motion-consistent video inpainting. , 2017, , .		17
17	Penalizing local correlations in the residual improves image denoising performance. , 2016, , .		4
18	Robust Multi-image Processing with Optimal Sparse Regularization. Journal of Mathematical Imaging and Vision, 2015, 51, 413-429.	0.8	10

#	ARTICLE	IF	CITATIONS
19	Video Inpainting of Complex Scenes. SIAM Journal on Imaging Sciences, 2014, 7, 1993-2019.	1.3	193
20	SMOS images restoration from L1A data: A sparsity-based variational approach. , 2014, , .		4
21	On the Role of Contrast and Regularity in Perceptual Boundary Saliency. Journal of Mathematical Imaging and Vision, 2014, 48, 396-412.	0.8	2
22	Robust Automatic Line Scratch Detection in Films. IEEE Transactions on Image Processing, 2014, 23, 1240-1254.	6.0	6
23	Single shot high dynamic range imaging using piecewise linear estimators. , 2014, , .		24
24	Covariance Trees for 2D and 3D Processing. , 2014, , .		2
25	Finding contrasted and regular edges by a contrario detection of periodic subsequences. Pattern Recognition, 2014, 47, 72-79.	5.1	0
26	Simultaneous HDR image reconstruction and denoising for dynamic scenes. , 2013, , .		16
27	Fast epipolar resampling of trinocular linear scanners images using Chandrayaan-1 TMC dataset. , 2013, , .		1
28	Lunar impact crater modeling using trinocular stereoscopic depth inpainting. , 2013, , .		0
29	Towards fast, generic video inpainting. , 2013, , .		19
30	Temporal filtering of line scratch detections in degraded films. , 2013, , .		3
31	Outlier Removal Power of the L1-Norm Super-Resolution. Lecture Notes in Computer Science, 2013, , 198-209.	1.0	4
32	Boruvka Meets Nearest Neighbors. Lecture Notes in Computer Science, 2013, , 560-567.	1.0	2
33	Subpixel Point Spread Function Estimation from Two Photographs at Different Distances. SIAM Journal on Imaging Sciences, 2012, 5, 1234-1260.	1.3	11
34	Sparsity-based restoration of SMOS images in the presence of outliers. , 2012, , .		4
35	Non Local Point Set Surfaces. , 2012, , .		16
36	Adaptive line scratch detection in degraded films. , 2012, , .		5

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37	Meaningful Matches in Stereovision. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 930-942.	9.7	38
38	The Non-parametric Sub-pixel Local Point Spread Function Estimation Is a Well Posed Problem. International Journal of Computer Vision, 2012, 96, 175-194.	10.9	34
39	Finding Edges by a Contrario Detection of Periodic Subsequences. Lecture Notes in Computer Science, 2012, , 773-780.	1.0	1
40	How Accurate Can Block Matches Be in Stereo Vision?. SIAM Journal on Imaging Sciences, 2011, 4, 472-500.	1.3	26
41	Automatically finding clusters in normalized cuts. Pattern Recognition, 2011, 44, 1372-1386.	5.1	16
42	Review of low-baseline stereo algorithms and benchmarks. Proceedings of SPIE, 2010, , .	0.8	3
43	Discarding moving objects in quasi-simultaneous stereovision. , 2010, , .		2
44	Fast plane detection in disparity maps. , 2010, , .		3
45	Deblurring of irregularly sampled images by TV regularization in a spline space. , 2010, , .		1
46	Sub-pixel stereo matching. , 2010, , .		2
47	Morphological Shape Context: Semi-locality and Robust Matching in Shape Recognition. Lecture Notes in Computer Science, 2009, , 129-136.	1.0	2
48	Irregular to Regular Sampling, Denoising, and Deconvolution. Multiscale Modeling and Simulation, 2009, 7, 1574-1608.	0.6	16
49	A TV Based Restoration Model with Local Constraints. Journal of Scientific Computing, 2008, 34, 209-236.	1.1	59
50	Automatic low baseline stereo in urban areas. Inverse Problems and Imaging, 2007, 1, 319-348.	0.6	22
51	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.	0.6	18
52	Constrained Anisotropic Diffusion and some Applications. , 2006, , .		7
53	Measuring and Improving Image Resolution by Adaptation of the Reciprocal Cell. Journal of Mathematical Imaging and Vision, 2004, 21, 235-279.	0.8	13
54	Vanishing point detection without any a priori information. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 502-507.	9.7	128

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55	Interpolation of digital elevation models using AMLE and related methods. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 314-325.	2.7	43
56	Fingerprint enhancement by shape adaptation of scale-space operators with automatic scale selection. IEEE Transactions on Image Processing, 2000, 9, 2027-2042.	6.0	88
57	Fingerprint image matching by minimization of a thin-plate energy using a two-step algorithm with auxiliary variables. , 0, , .		30
58	Non-parametric Sub-pixel Local Point Spread Function Estimation. Image Processing on Line, 0, 2, 8-21.	0.0	11
59	Non-Local Patch-Based Image Inpainting. Image Processing on Line, 0, 7, 373-385.	0.0	42
60	Recovering the Subpixel PSF from Two Photographs at Different Distances. Image Processing on Line, 0, 3, 242-251.	0.0	1