

Coloma Ballester

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

30
papers

1,154
citations

13
h-index

33
g-index

36
ext. papers

1,426
ext. citations

2.4
avg, IF

4.02
L-index

#	Paper	IF	Citations
30	Filling-in by joint interpolation of vector fields and gray levels. <i>IEEE Transactions on Image Processing</i> , 2001 , 10, 1200-11	8.7	481
29	A Variational Model for P+XS Image Fusion. <i>International Journal of Computer Vision</i> , 2006 , 69, 43-58	10.6	231
28	The Dirichlet Problem for the Total Variation Flow. <i>Journal of Functional Analysis</i> , 2001 , 180, 347-403	1.4	115
27	A TV Based Restoration Model with Local Constraints. <i>Journal of Scientific Computing</i> , 2008 , 34, 209-236	2.3	46
26	The tree of shapes of an image. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2003 , 9, 1-18	1	36
25	ChromaGAN: Adversarial Picture Colorization with Semantic Class Distribution 2020 ,		33
24	Minimizing total variation flow. <i>Comptes Rendus Mathematique</i> , 2000 , 331, 867-872		31
23	Affine Non-Local Means Image Denoising. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 2137-2148	8.7	22
22	An inpainting-based deinterlacing method. <i>IEEE Transactions on Image Processing</i> , 2007 , 16, 2476-91	8.7	22
21	Level Lines Selection with Variational Models for Segmentation and Encoding. <i>Journal of Mathematical Imaging and Vision</i> , 2007 , 27, 5-27	1.6	21
20	Disocclusion by Joint Interpolation of Vector Fields and Gray Levels. <i>Multiscale Modeling and Simulation</i> , 2003 , 2, 80-123	1.8	21
19	Affine Invariant Texture Segmentation and Shape from Texture by Variational Methods. <i>Journal of Mathematical Imaging and Vision</i> , 1998 , 9, 141-171	1.6	19
18	A TV-L1 Optical Flow Method with Occlusion Detection. <i>Lecture Notes in Computer Science</i> , 2012 , 31-40	0.9	15
17	Affine Invariant Segmentation by Variational Method. <i>SIAM Journal on Applied Mathematics</i> , 1996 , 56, 294-325	1.8	11
16	FALDOI: A New Minimization Strategy for Large Displacement Variational Optical Flow. <i>Journal of Mathematical Imaging and Vision</i> , 2017 , 58, 27-46	1.6	8
15	On Anisotropic Optical Flow Inpainting Algorithms. <i>Image Processing on Line</i> , 10, 78-104		6
14	Morse Description and Morphological Encoding of Continuous Data. <i>Multiscale Modeling and Simulation</i> , 2004 , 2, 179-209	1.8	5

13	Self-Supervised Small Soccer Player Detection and Tracking 2020 ,			5
12	Linear Multiscale Analysis of Similarities between Images on Riemannian Manifolds: Practical Formula and Affine Covariant Metrics. <i>SIAM Journal on Imaging Sciences</i> , 2015 , 8, 2021-2069	1.9		4
11	Multiscale Analysis of Similarities between Images on Riemannian Manifolds. <i>Multiscale Modeling and Simulation</i> , 2014 , 12, 616-649	1.8		4
10	A Computational Model for Amodal Completion. <i>Journal of Mathematical Imaging and Vision</i> , 2016 , 56, 511-534	1.6		3
9	Automatic Flare Spot Artifact Detection and Removal in Photographs. <i>Journal of Mathematical Imaging and Vision</i> , 2019 , 61, 515-533	1.6		3
8	Motion Inpainting by an Image-Based Geodesic AMLE Method 2018 ,			3
7	On Affine Invariant Descriptors Related to SIFT. <i>SIAM Journal on Imaging Sciences</i> , 2012 , 5, 652-687	1.9		2
6	Semantic Image Completion Through an Adversarial Strategy. <i>Communications in Computer and Information Science</i> , 2020 , 520-542	0.3		2
5	2020 ,			2
4	A Rotation-Invariant Regularization Term for Optical Flow Related Problems. <i>Lecture Notes in Computer Science</i> , 2015 , 304-319	0.9		1
3	History-Based Anomaly Detector: An Adversarial Approach to Anomaly Detection. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 761-776	0.4		0
2	Exemplar-Based Image Inpainting Using an Affine Invariant Similarity Measure. <i>Communications in Computer and Information Science</i> , 2017 , 454-474	0.3		
1	From Occlusion to Global Depth Order, a Monocular Approach. <i>Communications in Computer and Information Science</i> , 2017 , 575-592	0.3		