

# Xavier Bresson

## List of Publications by Citations

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22  
papers

2,358  
citations

16  
h-index

23  
g-index

23  
ext. papers

2,687  
ext. citations

4.9  
avg, IF

4.9  
L-index

#	Paper	IF	Citations
22	Fast Global Minimization of the Active Contour/Snake Model. <i>Journal of Mathematical Imaging and Vision</i> , <b>2007</b> , 28, 151-167	1.6	613
21	Bregmanized Nonlocal Regularization for Deconvolution and Sparse Reconstruction. <i>SIAM Journal on Imaging Sciences</i> , <b>2010</b> , 3, 253-276	1.9	453
20	Geometric Applications of the Split Bregman Method: Segmentation and Surface Reconstruction. <i>Journal of Scientific Computing</i> , <b>2010</b> , 45, 272-293	2.3	273
19	Fast dual minimization of the vectorial total variation norm and applications to color image processing. <i>Inverse Problems and Imaging</i> , <b>2008</b> , 2, 455-484	2.1	239
18	Local Histogram Based Segmentation Using the Wasserstein Distance. <i>International Journal of Computer Vision</i> , <b>2009</b> , 84, 97-111	10.6	147
17	Completely Convex Formulation of the Chan-Vese Image Segmentation Model. <i>International Journal of Computer Vision</i> , <b>2012</b> , 98, 103-121	10.6	122
16	A Variational Model for Object Segmentation Using Boundary Information and Shape Prior Driven by the Mumford-Shah Functional. <i>International Journal of Computer Vision</i> , <b>2006</b> , 68, 145-162	10.6	102
15	Nonlocal Mumford-Shah regularizers for color image restoration. <i>IEEE Transactions on Image Processing</i> , <b>2011</b> , 20, 1583-98	8.7	80
14	White matter fiber tract segmentation in DT-MRI using geometric flows. <i>Medical Image Analysis</i> , <b>2005</b> , 9, 223-36	15.4	58
13	Efficient algorithm for level set method preserving distance function. <i>IEEE Transactions on Image Processing</i> , <b>2012</b> , 21, 4722-34	8.7	54
12	Adaptive regularization with the structure tensor. <i>IEEE Transactions on Image Processing</i> , <b>2015</b> , 24, 1777-99	9.9	46
11	Fast texture segmentation model based on the shape operator and active contour <b>2008</b> ,		38
10	Enhanced compressed sensing recovery with level set normals. <i>IEEE Transactions on Image Processing</i> , <b>2013</b> , 22, 2611-26	8.7	33
9	Multi-class Transductive Learning Based on $\ell_1$ Relaxations of Cheeger Cut and Mumford-Shah-Potts Model. <i>Journal of Mathematical Imaging and Vision</i> , <b>2014</b> , 49, 191-201	1.6	29
8	Semi-supervised segmentation of ultrasound images based on patch representation and continuous min cut. <i>PLoS ONE</i> , <b>2014</b> , 9, e100972	3.7	22
7	Harmonic active contours. <i>IEEE Transactions on Image Processing</i> , <b>2014</b> , 23, 69-82	8.7	19
6	Active Contours Based on Chambolle's Mean Curvature Motion. <i>Proceedings International Conference on Image Processing</i> , <b>2007</b> ,	1.6	11

5	Global minimization of Markov random fields with applications to optical flow. <i>Inverse Problems and Imaging</i> , <b>2012</b> , 6, 623-644	2.1	8
4	Four color theorem and convex relaxation for image segmentation with any number of regions. <i>Inverse Problems and Imaging</i> , <b>2013</b> , 7, 1099-1113	2.1	6
3	Segmentation for Hyperspectral Images with Priors. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 97-106	0.9	2
2	Geodesic Active Fields A Geometric Framework for Image Registration <b>2010</b> ,		1
1	Surface Reconstruction Using Power Watershed. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 381-392	0.9	1