Vicent Caselles

List of Publications by Year in Descending Order

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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.

68 6,808 29 69 g-index

69 7,847 3.1 5.6 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
68	Qualitative behaviour for flux-saturated mechanisms: travelling waves, waiting time and smoothing effects. <i>Journal of the European Mathematical Society</i> , 2017 , 19, 441-472	1.8	12
67	Flux-saturated porous media equations and applications. <i>EMS Surveys in Mathematical Sciences</i> , 2015 , 2, 131-218	1.4	19
66	Multiscale Analysis for Images on Riemannian Manifolds. SIAM Journal on Imaging Sciences, 2014 , 7, 110)8 <u>r</u> .1517(03
65	A Wavelet Perspective on Variational Perceptually-Inspired Color Enhancement. <i>International Journal of Computer Vision</i> , 2014 , 106, 153-171	10.6	32
64	Recovering Relative Depth from Low-Level Features Without Explicit T-junction Detection and Interpretation. <i>International Journal of Computer Vision</i> , 2013 , 104, 38-68	10.6	18
63	A Variational Model for Gradient-Based Video Editing. <i>International Journal of Computer Vision</i> , 2013 , 103, 127-162	10.6	5
62	A Contrario Selection of Optimal Partitions for Image Segmentation. <i>SIAM Journal on Imaging Sciences</i> , 2013 , 6, 1274-1317	1.9	10
61	On the Jump set of Solutions of the Total Variation Flow. <i>Rendiconti Del Seminario Matematico Dell rbiniversitan Di Padova/Mathematical Journal of the University of Padova</i> , 2013 , 130, 155-168	0.3	8
60	High-Dimension Multilabel Problems: Convex or Nonconvex Relaxation?. <i>SIAM Journal on Imaging Sciences</i> , 2013 , 6, 2603-2639	1.9	8
59	NONLOCAL VARIATIONAL MODELS FOR INPAINTING AND INTERPOLATION. <i>Mathematical Models and Methods in Applied Sciences</i> , 2012 , 22, 1230003	3.5	5
58	An Analysis of Visual Adaptation and Contrast Perception for Tone Mapping. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2011 , 33, 2002-12	13.3	75
57	Regularity for solutions of the total variation denoising problem. <i>Revista Matematica Iberoamericana</i> , 2011 , 233-252	1.2	23
56	A Variational Framework for Exemplar-Based Image Inpainting. <i>International Journal of Computer Vision</i> , 2011 , 93, 319-347	10.6	135
55	An existence and uniqueness result for flux limited diffusion equations. <i>Discrete and Continuous Dynamical Systems</i> , 2011 , 31, 1151-1195	2	8
54	Temporally Consistent Gradient Domain Video Editing. Lecture Notes in Computer Science, 2011, 59-73	0.9	3
53	Some Remarks on Uniqueness and Regularity of Cheeger Sets. <i>Rendiconti Del Seminario Matematico Dell I</i> blniversitamDi Padova/Mathematical Journal of the University of Padova, 2010 , 123, 191-201	0.3	19
52	A Narrow Band Method for the Convex Formulation of Discrete Multilabel Problems. <i>Multiscale Modeling and Simulation</i> , 2010 , 8, 2048-2078	1.8	4

(2007-2010)

51	An introduction to Total Variation for image Analysis. <i>Radon Series on Computational and Applied Mathematics</i> , 2010 ,		14
50	The Dirichlet problem associated to the relativistic heat equation. <i>Mathematische Annalen</i> , 2010 , 347, 135-199	1	22
49	Total variation and Cheeger sets in Gauss space. <i>Journal of Functional Analysis</i> , 2010 , 259, 1491-1516	1.4	15
48	Geometric Description of Images as Topographic Maps. Lecture Notes in Mathematics, 2010,	0.4	38
47	3D Edge Detection by Selection of Level Surface Patches. <i>Journal of Mathematical Imaging and Vision</i> , 2009 , 34, 1-16	1.6	16
46	Issues About Retinex Theory and Contrast Enhancement. <i>International Journal of Computer Vision</i> , 2009 , 83, 101-119	10.6	114
45	Uniqueness of the Cheeger set of a convex body. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2009 , 70, 32-44	1.3	43
44	The volume preserving crystalline mean curvature flow of convex sets in . <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2009 , 92, 499-527	1.7	17
43	Anisotropic Cheeger Sets and Applications. SIAM Journal on Imaging Sciences, 2009, 2, 1211-1254	1.9	26
42	Irregular to Regular Sampling, Denoising, and Deconvolution. <i>Multiscale Modeling and Simulation</i> , 2009 , 7, 1574-1608	1.8	14
41	Exemplar-Based Interpolation of Sparsely Sampled Images. <i>Lecture Notes in Computer Science</i> , 2009 , 331-344	0.9	13
40	A Variational Framework for Non-local Image Inpainting. Lecture Notes in Computer Science, 2009, 345-	358 9	29
39	Constructing the Tree of Shapes of an Image by Fusion of the Trees of Connected Components of Upper and Lower Level Sets. <i>Positivity</i> , 2008 , 12, 55-73	0.6	18
38	Breast Nodule Ultrasound Segmentation Through Texture-Based Active Contours. <i>Mathematics in Industry</i> , 2008 , 858-862	0.2	1
37	A Contrast Invariant Approach to Motion Estimation: Validation and Application to Motion Estimation Improvement. <i>Mathematics in Industry</i> , 2008 , 863-867	0.2	1
36	Perceptual color correction through variational techniques. <i>IEEE Transactions on Image Processing</i> , 2007 , 16, 1058-72	8.7	104
35	Trends in Mathematical Imaging and Surface Processing. Oberwolfach Reports, 2007, 139-194	Ο	
34	Diffusion Equations with Finite Speed of Propagation 2007 , 17-34		

33	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
32	Texture-Oriented Anisotropic Filtering and Geodesic Active Contours in Breast Tumor Ultrasound Segmentation. <i>Journal of Mathematical Imaging and Vision</i> , 2007 , 28, 81-97	1.6	52
31	The Discontinuity Set of Solutions of the TV Denoising Problem and Some Extensions. <i>Multiscale Modeling and Simulation</i> , 2007 , 6, 879-894	1.8	85
30	Uniqueness of the Cheeger set of a convex body. <i>Pacific Journal of Mathematics</i> , 2007 , 232, 77-90	0.5	31
29	Crystalline Mean Curvature Flow of Convex Sets. <i>Archive for Rational Mechanics and Analysis</i> , 2006 , 179, 109-152	2.3	41
28	Finite Propagation Speed for Limited Flux Diffusion Equations. <i>Archive for Rational Mechanics and Analysis</i> , 2006 , 182, 269-297	2.3	56
27	Region Based Segmentation Using the Tree of Shapes 2006,		13
26	Restoration and Zoom of Irregularly Sampled, Blurred, and Noisy Images by Accurate Total Variation Minimization with Local Constraints. <i>Multiscale Modeling and Simulation</i> , 2006 , 5, 235-272	1.8	13
25	Anisotropic curvature-driven flow of convex sets. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2006 , 65, 1547-1577	1.3	30
24	A Variational Model for P+XS Image Fusion. <i>International Journal of Computer Vision</i> , 2006 , 69, 43-58	10.6	231
23	Visual Acuity in Day for Night. International Journal of Computer Vision, 2006, 69, 109-117	10.6	9
22	Geometric Active Contours for Image Segmentation 2005 , 613-627		6
21	A Strongly Degenerate Quasilinear Equation: the Parabolic Case. <i>Archive for Rational Mechanics and Analysis</i> , 2005 , 176, 415-453	2.3	25
20	Evolution of characteristic functions of convex sets in the plane by the minimizing total variation flow. <i>Interfaces and Free Boundaries</i> , 2005 , 29-53	0.7	37
19	The Cauchy Problem for a Strongly Degenerate Quasilinear Equation. <i>Journal of the European Mathematical Society</i> , 2005 , 361-393	1.8	32
18	Explicit Solutions of the Eigenvalue Problem \$div left(frac Duvert Du vert right)=u\$ in \$R^2\$. <i>SIAM Journal on Mathematical Analysis</i> , 2005 , 36, 1095-1129	1.7	35
17	Morse description and geometric encoding of digital elevation maps. <i>IEEE Transactions on Image Processing</i> , 2004 , 13, 1245-62	8.7	20
16	Morse Description and Morphological Encoding of Continuous Data. <i>Multiscale Modeling and Simulation</i> , 2004 , 2, 179-209	1.8	5

LIST OF PUBLICATIONS

15	Parabolic Quasilinear Equations Minimizing Linear Growth Functionals 2004,		103
14	Disocclusion by Joint Interpolation of Vector Fields and Gray Levels. <i>Multiscale Modeling and Simulation</i> , 2003 , 2, 80-123	1.8	21
13	The tree of shapes of an image. ESAIM - Control, Optimisation and Calculus of Variations, 2003, 9, 1-18	1	36
12	Geometry and Color in Natural Images. Journal of Mathematical Imaging and Vision, 2002, 16, 89-105	1.6	39
11	Grain Filters. Journal of Mathematical Imaging and Vision, 2002, 17, 249-270	1.6	34
10	A Parabolic Quasilinear Problem for Linear Growth Functionals. <i>Revista Matematica Iberoamericana</i> , 2002 , 135-185	1.2	13
9	Connected components of sets of finite perimeter and applications to image processing. <i>Journal of the European Mathematical Society</i> , 2001 , 3, 39-92	1.8	73
8	Diffusion of General Data on Non-Flat Manifolds via Harmonic Maps Theory: The Direction Diffusion Case. <i>International Journal of Computer Vision</i> , 2000 , 36, 149-161	10.6	132
7	Vector Median Filters, Inf-Sup Operations, and Coupled PDER: Theoretical Connections. <i>Journal of Mathematical Imaging and Vision</i> , 2000 , 12, 109-119	1.6	31
6	Topographic Maps and Local Contrast Changes in Natural Images. <i>International Journal of Computer Vision</i> , 1999 , 33, 5-27	10.6	103
5	Geodesic Active Contours. International Journal of Computer Vision, 1997, 22, 61-79	10.6	3221
4	Minimal surfaces: a geometric three dimensional segmentation approach. <i>Numerische Mathematik</i> , 1997 , 77, 423-451	2.2	75
3	Contrast Enhancement via Image Evolution Flows. <i>Graphical Models</i> , 1997 , 59, 407-416		21
2	Histogram Modification via Differential Equations. <i>Journal of Differential Equations</i> , 1997 , 135, 238-268	3 2.1	66
1	A geometric model for active contours in image processing. <i>Numerische Mathematik</i> , 1993 , 66, 1-31	2.2	1225