

Joachim Weickert

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.

179
papers

7,423
citations

41
h-index

83
g-index

196
ext. papers

8,509
ext. citations

2.6
avg, IF

6.14
L-index

#	Paper	IF	Citations
179	Learning Sparse Masks for Diffusion-Based Image Inpainting. <i>Lecture Notes in Computer Science</i> , 2022 , 528-539	0.9	0
178	Sparse Inpainting with Smoothed Particle Hydrodynamics. <i>SIAM Journal on Imaging Sciences</i> , 2021 , 14, 1669-1705	1.9	1
177	JPEG Meets PDE-based Image Compression 2021 ,		1
176	PDE Evolutions for M-Smoothers in One, Two, and Three Dimensions. <i>Journal of Mathematical Imaging and Vision</i> , 2021 , 63, 157-185	1.6	2
175	A systematic evaluation of coding strategies for sparse binary images. <i>Signal Processing: Image Communication</i> , 2021 , 99, 116424	2.8	1
174	Inpainting-Based Video Compression in FullHD. <i>Lecture Notes in Computer Science</i> , 2021 , 425-436	0.9	2
173	Compressing Flow Fields with Edge-Aware Homogeneous Diffusion Inpainting 2020 ,		2
172	Robustness of brain tumor segmentation. <i>Journal of Medical Imaging</i> , 2020 , 7, 064006	2.6	2
171	Stable Backward Diffusion Models that Minimise Convex Energies. <i>Journal of Mathematical Imaging and Vision</i> , 2020 , 62, 941-960	1.6	
170	Pseudodifferential Inpainting: The Missing Link Between PDE- and RBF-Based Interpolation. <i>Lecture Notes in Computer Science</i> , 2019 , 67-78	0.9	1
169	Anisotropic osmosis filtering for shadow removal in images. <i>Inverse Problems</i> , 2019 , 35, 054001	2.3	6
168	Benchmarking Wilms' tumor in multisequence MRI data: why does current clinical practice fail? Which popular segmentation algorithms perform well?. <i>Journal of Medical Imaging</i> , 2019 , 6, 034001	2.6	4
167	Sparsification Scale-Spaces. <i>Lecture Notes in Computer Science</i> , 2019 , 303-314	0.9	1
166	Compressing Audio Signals with Inpainting-Based Sparsification. <i>Lecture Notes in Computer Science</i> , 2019 , 92-103	0.9	1
165	Algorithms for Piecewise Constant Signal Approximations 2019 ,		1
164	Modelling Stable Backward Diffusion and Repulsive Swarms with Convex Energies and Range Constraints. <i>Lecture Notes in Computer Science</i> , 2018 , 409-423	0.9	1
163	A Discrete Theory and Efficient Algorithms for Forward-and-Backward Diffusion Filtering. <i>Journal of Mathematical Imaging and Vision</i> , 2018 , 60, 1399-1426	1.6	4

162	Optimising Data for Exemplar-Based Inpainting. <i>Lecture Notes in Computer Science</i> , 2018 , 547-558	0.9	4
161	Denoising by Inpainting. <i>Lecture Notes in Computer Science</i> , 2017 , 121-132	0.9	6
160	Diffusion-Based Inpainting for Coding Remote-Sensing Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017 , 14, 1203-1207	4.1	9
159	Turning Diffusion-Based Image Colorization Into Efficient Color Compression. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 860-869	8.7	22
158	Evaluating Data Terms for Variational Multi-frame Super-Resolution. <i>Lecture Notes in Computer Science</i> , 2017 , 590-601	0.9	2
157	An Efficient and Stable Two-Pixel Scheme for 2D Forward-and-Backward Diffusion. <i>Lecture Notes in Computer Science</i> , 2017 , 94-106	0.9	2
156	Fast retinal vessel analysis. <i>Journal of Real-Time Image Processing</i> , 2016 , 11, 413-422	1.9	31
155	FSI Schemes: Fast Semi-Iterative Solvers for PDEs and Optimisation Methods. <i>Lecture Notes in Computer Science</i> , 2016 , 91-102	0.9	5
154	Gradients versus Grey Values for Sparse Image Reconstruction and Inpainting-Based Compression. <i>Lecture Notes in Computer Science</i> , 2016 , 1-13	0.9	
153	Morphological Counterparts of Linear Shift-Invariant Scale-Spaces. <i>Journal of Mathematical Imaging and Vision</i> , 2016 , 56, 352-366	1.6	11
152	Modelling Image Processing with Discrete First-Order Swarms. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 261-270	0.4	2
151	A proof-of-concept framework for PDE-based video compression 2016 ,		14
150	2. Optimizing spatial and tonal data for PDE-based inpainting 2016 , 35-83		6
149	Pseudo-inverses of difference matrices and their application to sparse signal approximation. <i>Linear Algebra and Its Applications</i> , 2016 , 503, 26-47	0.9	4
148	Variational Image Fusion with Optimal Local Contrast. <i>Computer Graphics Forum</i> , 2016 , 35, 100-112	2.4	3
147	Cyclic Schemes for PDE-Based Image Analysis. <i>International Journal of Computer Vision</i> , 2016 , 118, 275-290.6	2.8	28
146	Evaluating the true potential of diffusion-based inpainting in a compression context. <i>Signal Processing: Image Communication</i> , 2016 , 46, 40-53	2.8	16
145	Morphologically Invariant Matching of Structures with the Complete Rank Transform. <i>International Journal of Computer Vision</i> , 2015 , 113, 220-232	10.6	4

144	Beyond pure quality: Progressive modes, region of interest coding, and real time video decoding for PDE-based image compression. <i>Journal of Visual Communication and Image Representation</i> , 2015 , 31, 253-265	2.7	13
143	Introducing Maximal Anisotropy into Second Order Coupling Models. <i>Lecture Notes in Computer Science</i> , 2015 , 79-90	0.9	6
142	A focus fusion framework with anisotropic depth map smoothing. <i>Pattern Recognition</i> , 2015 , 48, 3310-3323	3.7	8
141	Mathematical Foundations and Generalisations of the Census Transform for Robust Optic Flow Computation. <i>Journal of Mathematical Imaging and Vision</i> , 2015 , 52, 71-86	1.6	1
140	Discrete Green's Functions for Harmonic and Biharmonic Inpainting with Sparse Atoms. <i>Lecture Notes in Computer Science</i> , 2015 , 169-182	0.9	8
139	Why Does Non-binary Mask Optimisation Work for Diffusion-Based Image Compression?. <i>Lecture Notes in Computer Science</i> , 2015 , 85-98	0.9	7
138	The Morphological Equivalents of Relativistic and Alpha-Scale-Spaces. <i>Lecture Notes in Computer Science</i> , 2015 , 28-39	0.9	1
137	Variational Exposure Fusion with Optimal Local Contrast. <i>Lecture Notes in Computer Science</i> , 2015 , 425-436	3.6	3
136	Understanding, Optimising, and Extending Data Compression with Anisotropic Diffusion. <i>International Journal of Computer Vision</i> , 2014 , 108, 222-240	10.6	49
135	Simultaneous HDR and Optic Flow Computation 2014 ,		9
134	Colour image compression with anisotropic diffusion 2014 ,		6
133	Fast electrostatic halftoning. <i>Journal of Real-Time Image Processing</i> , 2014 , 9, 379-392	1.9	4
132	Learning Brightness Transfer Functions for the Joint Recovery of Illumination Changes and Optical Flow. <i>Lecture Notes in Computer Science</i> , 2014 , 455-471	0.9	19
131	A Dense Pipeline for 3D Reconstruction from Image Sequences. <i>Lecture Notes in Computer Science</i> , 2014 , 629-640	0.9	3
130	Progressive modes in PDE-based image compression 2013 ,		3
129	Enhancing 3-D cell structures in confocal and STED microscopy: a joint model for interpolation, deblurring and anisotropic smoothing. <i>Measurement Science and Technology</i> , 2013 , 24, 125703	2	9
128	The Complete Rank Transform: A Tool for Accurate and Morphologically Invariant Matching of Structures 2013 ,		17
127	Cross Anisotropic Cost Volume Filtering for Segmentation. <i>Lecture Notes in Computer Science</i> , 2013 , 803-814	3.4	2

126	Why Is the Census Transform Good for Robust Optic Flow Computation?. <i>Lecture Notes in Computer Science</i> , 2013 , 210-221	0.9	33
125	Compression of Depth Maps with Segment-Based Homogeneous Diffusion. <i>Lecture Notes in Computer Science</i> , 2013 , 319-330	0.9	16
124	L2-Stable Nonstandard Finite Differences for Anisotropic Diffusion. <i>Lecture Notes in Computer Science</i> , 2013 , 380-391	0.9	10
123	An Optimal Control Approach to Find Sparse Data for Laplace Interpolation. <i>Lecture Notes in Computer Science</i> , 2013 , 151-164	0.9	19
122	Focus Fusion with Anisotropic Depth Map Smoothing. <i>Lecture Notes in Computer Science</i> , 2013 , 67-74	0.9	
121	Dense versus Sparse Approaches for Estimating the Fundamental Matrix. <i>International Journal of Computer Vision</i> , 2012 , 96, 212-234	10.6	35
120	3D-Coherence-Enhancing Diffusion Filtering for Matrix Fields. <i>Computational Imaging and Vision</i> , 2012 , 49-63		3
119	Optic Flow Scale Space. <i>Lecture Notes in Computer Science</i> , 2012 , 713-724	0.9	2
118	Region-based pose tracking with occlusions using 3D models. <i>Machine Vision and Applications</i> , 2012 , 23, 557-577	2.8	24
117	Mathematische Bildverarbeitung mit Ideen aus der Natur. <i>Mitteilungen Der Deutschen Mathematiker-Vereinigung</i> , 2012 , 20,	0.1	1
116	Optimising Spatial and Tonal Data for Homogeneous Diffusion Inpainting. <i>Lecture Notes in Computer Science</i> , 2012 , 26-37	0.9	28
115	Novel Schemes for Hyperbolic PDEs Using Osmosis Filters from Visual Computing. <i>Lecture Notes in Computer Science</i> , 2012 , 532-543	0.9	4
114	Adaptation of Tensor Voting to Image Structure Estimation. <i>Mathematics and Visualization</i> , 2012 , 29-50	0.6	12
113	Anisotropic Range Image Integration. <i>Lecture Notes in Computer Science</i> , 2012 , 73-82	0.9	12
112	Motion Compensated Frame Interpolation with a Symmetric Optical Flow Constraint. <i>Lecture Notes in Computer Science</i> , 2012 , 447-457	0.9	19
111	Diffusion-Based Image Compression in Steganography. <i>Lecture Notes in Computer Science</i> , 2012 , 219-228	0.9	5
110	A Highly Efficient GPU Implementation for Variational Optic Flow Based on the Euler-Lagrange Framework. <i>Lecture Notes in Computer Science</i> , 2012 , 372-383	0.9	10
109	Fast PDE-Based Image Analysis in Your Pocket. <i>Lecture Notes in Computer Science</i> , 2012 , 544-555	0.9	3

108	Freehand HDR Imaging of Moving Scenes with Simultaneous Resolution Enhancement. <i>Computer Graphics Forum</i> , 2011 , 30, 405-414	2.4	86
107	Can Variational Models for Correspondence Problems Benefit from Upwind Discretisations?. <i>Journal of Mathematical Imaging and Vision</i> , 2011 , 39, 230-244	1.6	1
106	JMIV Special Issue. <i>Journal of Mathematical Imaging and Vision</i> , 2011 , 41, 1-2	1.6	1
105	Adaptive Continuous-Scale Morphology for Matrix Fields. <i>International Journal of Computer Vision</i> , 2011 , 92, 146-161	10.6	11
104	Highly Accurate Schemes for PDE-Based Morphology with General Convex Structuring Elements. <i>International Journal of Computer Vision</i> , 2011 , 92, 132-145	10.6	10
103	Optic Flow in Harmony. <i>International Journal of Computer Vision</i> , 2011 , 93, 368-388	10.6	162
102	Rotationally invariant similarity measures for nonlocal image denoising. <i>Journal of Visual Communication and Image Representation</i> , 2011 , 22, 117-130	2.7	55
101	Edge-based compression of cartoon-like images with homogeneous diffusion. <i>Pattern Recognition</i> , 2011 , 44, 1859-1873	7.7	45
100	Electrostatic Halftoning. <i>Computer Graphics Forum</i> , 2010 , 29, 2313-2327	2.4	51
99	Joint Estimation of Motion, Structure and Geometry from Stereo Sequences. <i>Lecture Notes in Computer Science</i> , 2010 , 568-581	0.9	38
98	Variational optic flow on the Sony PlayStation 3. <i>Journal of Real-Time Image Processing</i> , 2010 , 5, 163-177	1.9	11
97	Generalised Nonlocal Image Smoothing. <i>International Journal of Computer Vision</i> , 2010 , 90, 62-87	10.6	43
96	Colour, texture, and motion in level set based segmentation and tracking. <i>Image and Vision Computing</i> , 2010 , 28, 376-390	3.7	66
95	Partial Differential Equations for Interpolation and Compression of Surfaces. <i>Lecture Notes in Computer Science</i> , 2010 , 1-14	0.9	5
94	From Box Filtering to Fast Explicit Diffusion. <i>Lecture Notes in Computer Science</i> , 2010 , 533-542	0.9	52
93	Beating the Quality of JPEG 2000 with Anisotropic Diffusion. <i>Lecture Notes in Computer Science</i> , 2009 , 452-461	0.9	19
92	Properties of Higher Order Nonlinear Diffusion Filtering. <i>Journal of Mathematical Imaging and Vision</i> , 2009 , 35, 208-226	1.6	62
91	Large-scale antibody profiling of human blood sera: The future of molecular diagnosis. <i>Informatik-Spektrum</i> , 2009 , 32, 332-338	0.3	

90	How to Choose Interpolation Data in Images. <i>SIAM Journal on Applied Mathematics</i> , 2009 , 70, 333-352	1.8	38
89	PDE-based Morphology for Matrix Fields: Numerical Solution Schemes. <i>Advances in Pattern Recognition</i> , 2009 , 125-150		5
88	A Higher-Order Structure Tensor. <i>Mathematics and Visualization</i> , 2009 , 263-279	0.6	18
87	A General Structure Tensor Concept and Coherence-Enhancing Diffusion Filtering for Matrix Fields. <i>Mathematics and Visualization</i> , 2009 , 305-323	0.6	16
86	PDE-Driven Adaptive Morphology for Matrix Fields. <i>Lecture Notes in Computer Science</i> , 2009 , 247-258	0.9	7
85	Theoretical Foundations for Discrete Forward-and-Backward Diffusion Filtering. <i>Lecture Notes in Computer Science</i> , 2009 , 527-538	0.9	10
84	Hyperbolic Numerics for Variational Approaches to Correspondence Problems. <i>Lecture Notes in Computer Science</i> , 2009 , 636-647	0.9	2
83	Highly Accurate PDE-Based Morphology for General Structuring Elements. <i>Lecture Notes in Computer Science</i> , 2009 , 758-769	0.9	4
82	Deinterlacing with Motion-Compensated Anisotropic Diffusion. <i>Lecture Notes in Computer Science</i> , 2009 , 91-106	0.9	4
81	A Directional Rouy-Tourin Scheme for Adaptive Matrix-Valued Morphology. <i>Lecture Notes in Computer Science</i> , 2009 , 250-260	0.9	6
80	Complementary Optic Flow. <i>Lecture Notes in Computer Science</i> , 2009 , 207-220	0.9	53
79	Edge-Based Image Compression with Homogeneous Diffusion. <i>Lecture Notes in Computer Science</i> , 2009 , 476-483	0.9	11
78	Localised Mixture Models in Region-Based Tracking. <i>Lecture Notes in Computer Science</i> , 2009 , 21-30	0.9	5
77	Markerless motion capture of man-machine interaction 2008 ,		29
76	Locally analytic schemes: A link between diffusion filtering and wavelet shrinkage. <i>Applied and Computational Harmonic Analysis</i> , 2008 , 24, 195-224	3.1	47
75	Image Compression with Anisotropic Diffusion. <i>Journal of Mathematical Imaging and Vision</i> , 2008 , 31, 255-269	1.6	101
74	Structural Adaptive Smoothing Procedures 2008 , 183-229		
73	A Variational Model for the Joint Recovery of the Fundamental Matrix and the Optical Flow. <i>Lecture Notes in Computer Science</i> , 2008 , 314-324	0.9	21

72	Staying Well Grounded in Markerless Motion Capture. <i>Lecture Notes in Computer Science</i> , 2008 , 385-395	0.9	5
71	Is Dense Optic Flow Useful to Compute the Fundamental Matrix?. <i>Lecture Notes in Computer Science</i> , 2008 , 630-639	0.9	7
70	Dealing with Self-occlusion in Region Based Motion Capture by Means of Internal Regions. <i>Lecture Notes in Computer Science</i> , 2008 , 102-111	0.9	4
69	Combined Registration Methods for Pose Estimation. <i>Lecture Notes in Computer Science</i> , 2008 , 913-924	0.9	3
68	Minimally Stochastic Schemes for Singular Diffusion Equations. <i>Mathematics and Visualization</i> , 2007 , 325-339	0.6	2
67	A Generic Approach to the Filtering of Matrix Fields with Singular PDEs 2007 , 556-567		12
66	Theoretical foundations for spatially discrete 1-D shock filtering. <i>Image and Vision Computing</i> , 2007 , 25, 455-463	3.7	8
65	Morphology for matrix data: Ordering versus PDE-based approach. <i>Image and Vision Computing</i> , 2007 , 25, 496-511	3.7	41
64	From two-dimensional nonlinear diffusion to coupled Haar wavelet shrinkage. <i>Journal of Visual Communication and Image Representation</i> , 2007 , 18, 162-175	2.7	14
63	Mathematical morphology for matrix fields induced by the Loewner ordering in higher dimensions. <i>Signal Processing</i> , 2007 , 87, 277-290	4.4	33
62	Median and related local filters for tensor-valued images. <i>Signal Processing</i> , 2007 , 87, 291-308	4.4	42
61	Three-Dimensional Shape Knowledge for Joint Image Segmentation and Pose Tracking. <i>International Journal of Computer Vision</i> , 2007 , 73, 243-262	10.6	102
60	Level Set Methods for Watershed Image Segmentation 2007 , 178-190		20
59	Illumination-Robust Variational Optical Flow with Photometric Invariants 2007 , 152-162		55
58	Robust Variational Reconstruction from Multiple Views 2007 , 173-182		1
57	Integrodifferential equations for continuous multiscale wavelet shrinkage. <i>Inverse Problems and Imaging</i> , 2007 , 1, 47-62	2.1	9
56	Energy-Based Image Simplification with Nonlocal Data and Smoothness Terms 2007 , 51-60		4
55	Beauty with Variational Methods: An Optic Flow Approach to Hairstyle Simulation 2007 , 825-836		1

54	Anisotropic Continuous-Scale Morphology. <i>Lecture Notes in Computer Science</i> , 2007 , 515-522	0.9	16
53	Region-Based Pose Tracking. <i>Lecture Notes in Computer Science</i> , 2007 , 56-63	0.9	25
52	Evaluating a General Class of Filters for Image Denoising 2007 , 601-610		2
51	A Survey on Variational Optic Flow Methods for Small Displacements. <i>Mathematics in Industry</i> , 2006 , 103-136	0.2	43
50	Tensor Field Interpolation with PDEs. <i>Mathematics and Visualization</i> , 2006 , 315-325	0.6	29
49	Adaptive Structure Tensors and their Applications. <i>Mathematics and Visualization</i> , 2006 , 17-47	0.6	45
48	Tensor Median Filtering and M-Smoothing. <i>Mathematics and Visualization</i> , 2006 , 345-356	0.6	4
47	Variational Motion Segmentation with Level Sets. <i>Lecture Notes in Computer Science</i> , 2006 , 471-483	0.9	31
46	From Tensor-Driven Diffusion to Anisotropic Wavelet Shrinkage. <i>Lecture Notes in Computer Science</i> , 2006 , 391-403	0.9	6
45	Level set segmentation with multiple regions. <i>IEEE Transactions on Image Processing</i> , 2006 , 15, 3213-8	8.7	125
44	Nonlinear structure tensors. <i>Image and Vision Computing</i> , 2006 , 24, 41-55	3.7	161
43	A TV flow based local scale estimate and its application to texture discrimination. <i>Journal of Visual Communication and Image Representation</i> , 2006 , 17, 1053-1073	2.7	33
42	Numerical aspects of TV flow. <i>Numerical Algorithms</i> , 2006 , 41, 79-101	2.1	8
41	Highly Accurate Optic Flow Computation with Theoretically Justified Warping. <i>International Journal of Computer Vision</i> , 2006 , 67, 141-158	10.6	286
40	A Multigrid Platform for Real-Time Motion Computation with Discontinuity-Preserving Variational Methods. <i>International Journal of Computer Vision</i> , 2006 , 70, 257-277	10.6	117
39	Curvature-Driven PDE Methods for Matrix-Valued Images. <i>International Journal of Computer Vision</i> , 2006 , 69, 93-107	10.6	33
38	A Shock-Capturing Algorithm for the Differential Equations of Dilation and Erosion. <i>Journal of Mathematical Imaging and Vision</i> , 2006 , 25, 187-201	1.6	21
37	From Adaptive Averaging to Accelerated Nonlinear Diffusion Filtering. <i>Lecture Notes in Computer Science</i> , 2006 , 101-110	0.9	5

36	Flexible Segmentation and Smoothing of DT-MRI Fields Through a Customizable Structure Tensor. <i>Lecture Notes in Computer Science</i> , 2006 , 455-464	0.9	8
35	Mathematical Morphology on Tensor Data Using the Loewner Ordering. <i>Mathematics and Visualization</i> , 2006 , 357-368	0.6	10
34	PDEs for Tensor Image Processing. <i>Mathematics and Visualization</i> , 2006 , 399-414	0.6	5
33	Fully-Automated Analysis of Muscle Fiber Images with Combined Region and Edge-Based Active Contours 2006 , 86-90		6
32	Domain decomposition for variational optical-flow computation. <i>IEEE Transactions on Image Processing</i> , 2005 , 14, 1125-37	8.7	13
31	Variational optical flow computation in real time. <i>IEEE Transactions on Image Processing</i> , 2005 , 14, 608-115	8.7	105
30	Regularity and Scale-Space Properties of Fractional High Order Linear Filtering. <i>Lecture Notes in Computer Science</i> , 2005 , 13-25	0.9	18
29	Relativistic Scale-Spaces. <i>Lecture Notes in Computer Science</i> , 2005 , 1-12	0.9	4
28	Lucas/Kanade Meets Horn/Schunck: Combining Local and Global Optic Flow Methods. <i>International Journal of Computer Vision</i> , 2005 , 61, 1-21	10.6	738
27	An Explanation for the Logarithmic Connection between Linear and Morphological System Theory. <i>International Journal of Computer Vision</i> , 2005 , 64, 157-169	10.6	19
26	Diffusion-Inspired Shrinkage Functions and Stability Results for Wavelet Denoising. <i>International Journal of Computer Vision</i> , 2005 , 64, 171-186	10.6	36
25	Towards PDE-Based Image Compression. <i>Lecture Notes in Computer Science</i> , 2005 , 37-48	0.9	35
24	Discontinuity-Preserving Computation of Variational Optic Flow in Real-Time. <i>Lecture Notes in Computer Science</i> , 2005 , 279-290	0.9	13
23	Three-Dimensional Shape Knowledge for Joint Image Segmentation and Pose Estimation. <i>Lecture Notes in Computer Science</i> , 2005 , 109-116	0.9	21
22	Optic Flow Goes Stereo: A Variational Method for Estimating Discontinuity-Preserving Dense Disparity Maps. <i>Lecture Notes in Computer Science</i> , 2005 , 33-40	0.9	33
21	The Bessel Scale-Space. <i>Lecture Notes in Computer Science</i> , 2005 , 84-95	0.9	5
20	On the Equivalence of Soft Wavelet Shrinkage, Total Variation Diffusion, Total Variation Regularization, and SIDes. <i>SIAM Journal on Numerical Analysis</i> , 2004 , 42, 686-713	2.4	158
19	High Accuracy Optical Flow Estimation Based on a Theory for Warping. <i>Lecture Notes in Computer Science</i> , 2004 , 25-36	0.9	849

18	A TV Flow Based Local Scale Measure for Texture Discrimination. <i>Lecture Notes in Computer Science</i> , 2004 , 578-590	0.9	30
17	Unsupervised Segmentation Incorporating Colour, Texture, and Motion. <i>Lecture Notes in Computer Science</i> , 2003 , 353-360	0.9	60
16	Coherence-Enhancing Shock Filters. <i>Lecture Notes in Computer Science</i> , 2003 , 1-8	0.9	45
15	An Explanation for the Logarithmic Connection between Linear and Morphological Systems. <i>Lecture Notes in Computer Science</i> , 2003 , 325-339	0.9	8
14	Equivalence Results for TV Diffusion and TV Regularisation. <i>Lecture Notes in Computer Science</i> , 2003 , 86-100	0.9	10
13	Dense Disparity Map Estimation Respecting Image Discontinuities: A PDE and Scale-Space Based Approach. <i>Journal of Visual Communication and Image Representation</i> , 2002 , 13, 3-21	2.7	95
12	A Scheme for Coherence-Enhancing Diffusion Filtering with Optimized Rotation Invariance. <i>Journal of Visual Communication and Image Representation</i> , 2002 , 13, 103-118	2.7	177
11	Diffusion Snakes: Introducing Statistical Shape Knowledge into the Mumford-Shah Functional. <i>International Journal of Computer Vision</i> , 2002 , 50, 295-313	10.6	218
10	Diffusion and regularization of vector- and matrix-valued images. <i>Contemporary Mathematics</i> , 2002 , 251-268		86
9	Variational Optic Flow Computation with a Spatio-Temporal Smoothness Constraint 2001 , 14, 245-255		171
8	A Theoretical Framework for Convex Regularizers in PDE-Based Computation of Image Motion. <i>International Journal of Computer Vision</i> , 2001 , 45, 245-264	10.6	186
7	Efficient image segmentation using partial differential equations and morphology. <i>Pattern Recognition</i> , 2001 , 34, 1813-1824	7.7	110
6	Reliable Estimation of Dense Optical Flow Fields with Large Displacements. <i>International Journal of Computer Vision</i> , 2000 , 39, 41-56	10.6	175
5	Relations Between Regularization and Diffusion Filtering. <i>Journal of Mathematical Imaging and Vision</i> , 2000 , 12, 43-63	1.6	90
4	Coherence-Enhancing Diffusion Filtering. <i>International Journal of Computer Vision</i> , 1999 , 31, 111-127	10.6	515
3	Linear Scale-Space has First been Proposed in Japan. <i>Journal of Mathematical Imaging and Vision</i> , 1999 , 10, 237-252	1.6	116
2	Coherence-enhancing diffusion of colour images. <i>Image and Vision Computing</i> , 1999 , 17, 201-212	3.7	169
1	A semidiscrete nonlinear scale-space theory and its relation to the PeronaMalik paradox 1997 , 1-10		29

