Joachim Weickert

List of Publications by Year
in descending order

174 papers	9,785 citations
61945 43 h-index	39638 94 g-index
196 all docs	196 docs citations
196 times ranked	5495 citing authors

#	Article	IF	Citations
1	High Accuracy Optical Flow Estimation Based on a Theory for Warping. Lecture Notes in Computer Science, 2004, , 25-36.	1.0	1,424
2	Lucas/Kanade Meets Horn/Schunck: Combining Local and Global Optic Flow Methods. International Journal of Computer Vision, 2005, 61, 1-21.	10.9	935
3	Coherence-Enhancing Diffusion Filtering. International Journal of Computer Vision, 1999, 31, 111-127.	10.9	673
4	Highly Accurate Optic Flow Computation with Theoretically Justified Warping. International Journal of Computer Vision, 2006, 67, 141-158.	10.9	354
5	Diffusion Snakes: Introducing Statistical Shape Knowledge into the Mumford-Shah Functional. International Journal of Computer Vision, 2002, 50, 295-313.	10.9	253
6	Reliable Estimation of Dense Optical Flow Fields with Large Displacements. International Journal of Computer Vision, 2000, 39, 41-56.	10.9	245
7	A Theoretical Framework for Convex Regularizers in PDE-Based Computation of Image Motion. International Journal of Computer Vision, 2001, 45, 245-264.	10.9	231
8	A Scheme for Coherence-Enhancing Diffusion Filtering with Optimized Rotation Invariance. Journal of Visual Communication and Image Representation, 2002, 13, 103-118.	1.7	218
9	Coherence-enhancing diffusion of colour images. Image and Vision Computing, 1999, 17, 201-212.	2.7	208
10	Nonlinear structure tensors. Image and Vision Computing, 2006, 24, 41-55.	2.7	202
11	On the Equivalence of Soft Wavelet Shrinkage, Total Variation Diffusion, Total Variation Regularization, and SIDEs. SIAM Journal on Numerical Analysis, 2004, 42, 686-713.	1.1	199
12	Variational Optic Flow Computation with a Spatio-Temporal Smoothness Constraint. , 2001, 14, 245-255.		197
13	Optic Flow in Harmony. International Journal of Computer Vision, 2011, 93, 368-388.	10.9	193
14	Efficient image segmentation using partial differential equations and morphology. Pattern Recognition, 2001, 34, 1813-1824.	5.1	170
15	Level Set Segmentation With Multiple Regions. IEEE Transactions on Image Processing, 2006, 15, 3213-3218.	6.0	155
16	Linear Scale-Space has First been Proposed in Japan. Journal of Mathematical Imaging and Vision, 1999, 10, 237-252.	0.8	144
17	Freehand HDR Imaging of Moving Scenes with Simultaneous Resolution Enhancement. Computer Graphics Forum, 2011, 30, 405-414.	1.8	142
18	Dense Disparity Map Estimation Respecting Image Discontinuities: A PDE and Scale-Space Based Approach. Journal of Visual Communication and Image Representation, 2002, 13, 3-21.	1.7	137

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19	A Multigrid Platform for Real-Time Motion Computation with Discontinuity-Preserving Variational Methods. International Journal of Computer Vision, 2006, 70, 257-277.	10.9	136
20	Variational optical flow computation in real time. IEEE Transactions on Image Processing, 2005, 14, 608-615.	6.0	126
21	Image Compression with Anisotropic Diffusion. Journal of Mathematical Imaging and Vision, 2008, 31, 255-269.	0.8	124
22	Relations Between Regularization and Diffusion Filtering. Journal of Mathematical Imaging and Vision, 2000, 12, 43-63.	0.8	121
23	Three-Dimensional Shape Knowledge for Joint Image Segmentation and Pose Tracking. International Journal of Computer Vision, 2007, 73, 243-262.	10.9	111
24	Colour, texture, and motion in level set based segmentation and tracking. Image and Vision Computing, 2010, 28, 376-390.	2.7	89
25	Properties of Higher Order Nonlinear Diffusion Filtering. Journal of Mathematical Imaging and Vision, 2009, 35, 208-226.	0.8	77
26	Illumination-Robust Variational Optical Flow with Photometric Invariants. , 2007, , 152-162.		74
27	Complementary Optic Flow. Lecture Notes in Computer Science, 2009, , 207-220.	1.0	74
28	Unsupervised Segmentation Incorporating Colour, Texture, and Motion. Lecture Notes in Computer Science, 2003, , 353-360.	1.0	71
29	From Box Filtering to Fast Explicit Diffusion. Lecture Notes in Computer Science, 2010, , 533-542.	1.0	70
30	Rotationally invariant similarity measures for nonlocal image denoising. Journal of Visual Communication and Image Representation, 2011, 22, 117-130.	1.7	67
31	Coherence-Enhancing Shock Filters. Lecture Notes in Computer Science, 2003, , 1-8.	1.0	65
32	Understanding, Optimising, and Extending Data Compression with Anisotropic Diffusion. International Journal of Computer Vision, 2014, 108, 222-240.	10.9	62
33	A Survey on Variational Optic Flow Methods for Small Displacements. Mathematics in Industry, 2006, , 103-136.	0.1	58
34	Edge-based compression of cartoon-like images with homogeneous diffusion. Pattern Recognition, 2011, 44, 1859-1873.	5.1	56
35	Variational Motion Segmentation with Level Sets. Lecture Notes in Computer Science, 2006, , 471-483.	1.0	55
36	Electrostatic Halftoning. Computer Graphics Forum, 2010, 29, 2313-2327.	1.8	55

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37	Locally analytic schemes: A link between diffusion filtering and wavelet shrinkage. Applied and Computational Harmonic Analysis, 2008, 24, 195-224.	1.1	52
38	Median and related local filters for tensor-valued images. Signal Processing, 2007, 87, 291-308.	2.1	50
39	Optic Flow Goes Stereo: A Variational Method for Estimating Discontinuity-Preserving Dense Disparity Maps. Lecture Notes in Computer Science, 2005, , 33-40.	1.0	49
40	Joint Estimation of Motion, Structure and Geometry from Stereo Sequences. Lecture Notes in Computer Science, 2010, , 568-581.	1.0	48
41	Diffusion-Inspired Shrinkage Functions and Stability Results for Wavelet Denoising. International Journal of Computer Vision, 2005, 64, 171-186.	10.9	47
42	Generalised Nonlocal Image Smoothing. International Journal of Computer Vision, 2010, 90, 62-87.	10.9	47
43	A semidiscrete nonlinear scale-space theory and its relation to the Peronaâ€"Malik paradox. , 1997, , 1-10.		47
44	How to Choose Interpolation Data in Images. SIAM Journal on Applied Mathematics, 2009, 70, 333-352.	0.8	46
45	Why Is the Census Transform Good for Robust Optic Flow Computation?. Lecture Notes in Computer Science, 2013, , 210-221.	1.0	46
46	Dense versus Sparse Approaches for Estimating the Fundamental Matrix. International Journal of Computer Vision, 2012, 96, 212-234.	10.9	44
47	Morphology for matrix data: Ordering versus PDE-based approach. Image and Vision Computing, 2007, 25, 496-511.	2.7	43
48	A TV Flow Based Local Scale Measure for Texture Discrimination. Lecture Notes in Computer Science, 2004, , 578-590.	1.0	43
49	Towards PDE-Based Image Compression. Lecture Notes in Computer Science, 2005, , 37-48.	1.0	42
50	Cyclic Schemes for PDE-Based Image Analysis. International Journal of Computer Vision, 2016, 118, 275-299.	10.9	41
51	A TV flow based local scale estimate and its application to texture discrimination. Journal of Visual Communication and Image Representation, 2006, 17, 1053-1073.	1.7	39
52	Optimising Spatial and Tonal Data for Homogeneous Diffusion Inpainting. Lecture Notes in Computer Science, 2012, , 26-37.	1.0	39
53	Mathematical morphology for matrix fields induced by the Loewner ordering in higher dimensions. Signal Processing, 2007, 87, 277-290.	2.1	37
54	Curvature-Driven PDE Methods for Matrix-Valued Images. International Journal of Computer Vision, 2006, 69, 93-107.	10.9	36

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55	Markerless motion capture of man-machine interaction. , 2008, , .		36
56	Fast retinal vessel analysis. Journal of Real-Time Image Processing, 2016, 11, 413-422.	2.2	34
57	Turning Diffusion-Based Image Colorization Into Efficient Color Compression. IEEE Transactions on Image Processing, 2017, 26, 860-869.	6.0	33
58	Region-based pose tracking with occlusions using 3D models. Machine Vision and Applications, 2012, 23, 557-577.	1.7	29
59	Motion Compensated Frame Interpolation with a Symmetric Optical Flow Constraint. Lecture Notes in Computer Science, 2012, , 447-457.	1.0	29
60	A Variational Model for the Joint Recovery of the Fundamental Matrix and the Optical Flow. Lecture Notes in Computer Science, 2008, , 314-324.	1.0	27
61	Level Set Methods for Watershed Image Segmentation. , 2007, , 178-190.		26
62	Region-Based Pose Tracking. Lecture Notes in Computer Science, 2007, , 56-63.	1.0	26
63	An Optimal Control Approach to Find Sparse Data for Laplace Interpolation. Lecture Notes in Computer Science, 2013, , 151-164.	1.0	24
64	A Shock-Capturing Algorithm for the Differential Equations of Dilation and Erosion. Journal of Mathematical Imaging and Vision, 2006, 25, 187-201.	0.8	23
65	An Explanation for the Logarithmic Connection between Linear and Morphological System Theory. International Journal of Computer Vision, 2005, 64, 157-169.	10.9	21
66	From two-dimensional nonlinear diffusion to coupled Haar wavelet shrinkage. Journal of Visual Communication and Image Representation, 2007, 18, 162-175.	1.7	21
67	Anisotropic Continuous-Scale Morphology. Lecture Notes in Computer Science, 2007, , 515-522.	1.0	21
68	The Complete Rank Transform: A Tool for Accurate and Morphologically Invariant Matching of Structures. , 2013, , .		21
69	Beating the Quality of JPEG 2000 with Anisotropic Diffusion. Lecture Notes in Computer Science, 2009, , 452-461.	1.0	20
70	Evaluating the true potential of diffusion-based inpainting in a compression context. Signal Processing: Image Communication, 2016, 46, 40-53.	1.8	20
71	Learning Brightness Transfer Functions for the Joint Recovery of Illumination Changes and Optical Flow. Lecture Notes in Computer Science, 2014, , 455-471.	1.0	20
72	A Higher-Order Structure Tensor. Mathematics and Visualization, 2009, , 263-279.	0.4	20

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73	Simultaneous HDR and Optic Flow Computation. , 2014, , .		19
74	Edge-Based Image Compression with Homogeneous Diffusion. Lecture Notes in Computer Science, 2009, , 476-483.	1.0	18
75	Beyond pure quality: Progressive modes, region of interest coding, and real time video decoding for PDE-based image compression. Journal of Visual Communication and Image Representation, 2015, 31, 253-265.	1.7	17
76	A proof-of-concept framework for PDE-based video compression. , 2016, , .		17
77	A General Structure Tensor Concept and Coherence-Enhancing Diffusion Filtering for Matrix Fields. Mathematics and Visualization, 2009, , 305-323.	0.4	17
78	Domain decomposition for variational optical-flow computation. IEEE Transactions on Image Processing, 2005, 14, 1125-1137.	6.0	16
79	Morphological Counterparts of Linear Shift-Invariant Scale-Spaces. Journal of Mathematical Imaging and Vision, 2016, 56, 352-366.	0.8	16
80	Diffusion-Based Inpainting for Coding Remote-Sensing Data. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1203-1207.	1.4	16
81	Theoretical Foundations for Discrete Forward-and-Backward Diffusion Filtering. Lecture Notes in Computer Science, 2009, , 527-538.	1.0	16
82	A Highly Efficient GPU Implementation for Variational Optic Flow Based on the Euler-Lagrange Framework. Lecture Notes in Computer Science, 2012, , 372-383.	1.0	16
83	Discontinuity-Preserving Computation of Variational Optic Flow in Real-Time. Lecture Notes in Computer Science, 2005, , 279-290.	1.0	15
84	Anisotropic Range Image Integration. Lecture Notes in Computer Science, 2012, , 73-82.	1.0	15
85	Discrete Green's Functions for Harmonic and Biharmonic Inpainting with Sparse Atoms. Lecture Notes in Computer Science, 2015, , 169-182.	1.0	13
86	Adaptation of Tensor Voting to Image Structure Estimation. Mathematics and Visualization, 2012, , 29-50.	0.4	13
87	A Generic Approach to the Filtering of Matrix Fields with Singular PDEs. , 2007, , 556-567.		12
88	Variational optic flow on the Sony PlayStation 3. Journal of Real-Time Image Processing, 2010, 5, 163-177.	2.2	12
89	Adaptive Continuous-Scale Morphology for Matrix Fields. International Journal of Computer Vision, 2011, 92, 146-161.	10.9	12
90	L 2-Stable Nonstandard Finite Differences for Anisotropic Diffusion. Lecture Notes in Computer Science, 2013, , 380-391.	1.0	12

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91	Integrodifferential equations for continuous multiscale wavelet shrinkage. Inverse Problems and Imaging, 2007, 1, 47-62.	0.6	12
92	A focus fusion framework with anisotropic depth map smoothing. Pattern Recognition, 2015, 48, 3310-3323.	5.1	11
93	Anisotropic osmosis filtering for shadow removal in images. Inverse Problems, 2019, 35, 054001.	1.0	11
94	Equivalence Results for TV Diffusion and TV Regularisation. Lecture Notes in Computer Science, 2003, , 86-100.	1.0	11
95	Benchmarking Wilmsâ€™ tumor in multisequence MRI data: why does current clinical practice fail? Which popular segmentation algorithms perform well?. Journal of Medical Imaging, 2019, 6, 1.	0.8	11
96	Theoretical foundations for spatially discrete 1-D shock filtering. Image and Vision Computing, 2007, 25, 455-463.	2.7	10
97	Highly Accurate Schemes for PDE-Based Morphology with General Convex Structuring Elements. International Journal of Computer Vision, 2011, 92, 132-145.	10.9	10
98	Mathematical Morphology on Tensor Data Using the Loewner Ordering. Mathematics and Visualization, 2006, , 357-368.	0.4	10
99	Enhancing 3-D cell structures in confocal and STED microscopy: a joint model for interpolation, deblurring and anisotropic smoothing. Measurement Science and Technology, 2013, 24, 125703.	1.4	9
100	Fast electrostatic halftoning. Journal of Real-Time Image Processing, 2014, 9, 379-392.	2.2	9
101	Flexible Segmentation and Smoothing of DT-MRI Fields Through a Customizable Structure Tensor. Lecture Notes in Computer Science, 2006, , 455-464.	1.0	9
102	Fully-Automated Analysis of Muscle Fiber Images with Combined Region and Edge-Based Active Contours. , 2006, , 86-90.		9
103	PDE-Driven Adaptive Morphology for Matrix Fields. Lecture Notes in Computer Science, 2009, , 247-258.	1.0	9
104	From Tensor-Driven Diffusion to Anisotropic Wavelet Shrinkage. Lecture Notes in Computer Science, 2006, , 391-403.	1.0	8
105	Numerical aspects of TV flow. Numerical Algorithms, 2006, 41, 79-101.	1.1	8
106	A Discrete Theory and Efficient Algorithms for Forward-and-Backward Diffusion Filtering. Journal of Mathematical Imaging and Vision, 2018, 60, 1399-1426.	0.8	8
107	Optimising Data for Exemplar-Based Inpainting. Lecture Notes in Computer Science, 2018, , 547-558.	1.0	8
108	An Explanation for the Logarithmic Connection between Linear and Morphological Systems. Lecture Notes in Computer Science, 2003, , 325-339.	1.0	8

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109	Staying Well Grounded in Markerless Motion Capture. Lecture Notes in Computer Science, 2008, , 385-395.	1.0	8
110	Is Dense Optic Flow Useful to Compute the Fundamental Matrix?. Lecture Notes in Computer Science, 2008, , 630-639.	1.0	8
111	Colour image compression with anisotropic diffusion. , 2014, , .		7
112	From Adaptive Averaging to Accelerated Nonlinear Diffusion Filtering. Lecture Notes in Computer Science, 2006, , 101-110.	1.0	7
113	Why Does Non-binary Mask Optimisation Work for Diffusion-Based Image Compression?. Lecture Notes in Computer Science, 2015, , 85-98.	1.0	7
114	Partial Differential Equations for Interpolation and Compression of Surfaces. Lecture Notes in Computer Science, 2010, , 1-14.	1.0	7
115	Morphologically Invariant Matching of Structures with the Complete Rank Transform. International Journal of Computer Vision, 2015, 113, 220-232.	10.9	6
116	Introducing Maximal Anisotropy into Second Order Coupling Models. Lecture Notes in Computer Science, 2015, , 79-90.	1.0	6
117	2. Optimizing spatial and tonal data for PDE-based inpainting. , 2016, , 35-83.		6
118	FSI Schemes: Fast Semi-Iterative Solvers for PDEs and Optimisation Methods. Lecture Notes in Computer Science, 2016, , 91-102.	1.0	6
119	Compressing Flow Fields with Edge-Aware Homogeneous Diffusion Inpainting. , 2020, , .		6
120	Energy-Based Image Simplification with Nonlocal Data and Smoothness Terms. , 2007, , 51-60.		6
121	Combined Registration Methods for Pose Estimation. Lecture Notes in Computer Science, 2008, , 913-924.	1.0	6
122	A Directional Rouy-Tourin Scheme for Adaptive Matrix-Valued Morphology. Lecture Notes in Computer Science, 2009, , 250-260.	1.0	6
123	Connections Between Numerical Algorithms for PDEs and Neural Networks. Journal of Mathematical Imaging and Vision, 2023, 65, 185-208.	0.8	6
124	Relativistic Scale-Spaces. Lecture Notes in Computer Science, 2005, , 1-12.	1.0	5
125	Pseudo-inverses of difference matrices and their application to sparse signal approximation. Linear Algebra and Its Applications, 2016, 503, 26-47.	0.4	5
126	Variational Image Fusion with Optimal Local Contrast. Computer Graphics Forum, 2016, 35, 100-112.	1.8	5

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127	PDEs for Tensor Image Processing. Mathematics and Visualization, 2006, , 399-414.	0.4	5
128	PDE-based Morphology for Matrix Fields: Numerical Solution Schemes. Advances in Pattern Recognition, 2009, , 125-150.	0.8	5
129	Dealing with Self-occlusion in Region Based Motion Capture by Means of Internal Regions. Lecture Notes in Computer Science, 2008, , 102-111.	1.0	5
130	Highly Accurate PDE-Based Morphology for General Structuring Elements. Lecture Notes in Computer Science, 2009, , 758-769.	1.0	5
131	Novel Schemes for Hyperbolic PDEs Using Osmosis Filters from Visual Computing. Lecture Notes in Computer Science, 2012, , 532-543.	1.0	5
132	Diffusion-Based Image Compression in Steganography. Lecture Notes in Computer Science, 2012, , 219-228.	1.0	5
133	Fast PDE-Based Image Analysis in Your Pocket. Lecture Notes in Computer Science, 2012, , 544-555.	1.0	5
134	Learning Sparse Masks forÂDiffusion-Based Image Inpainting. Lecture Notes in Computer Science, 2022, , 528-539.	1.0	5
135	Deinterlacing with Motion-Compensated Anisotropic Diffusion. Lecture Notes in Computer Science, 2009, , 91-106.	1.0	4
136	Robustness of brain tumor segmentation. Journal of Medical Imaging, 2020, 7, 064006.	0.8	4
137	Domain Decomposition Algorithms for Real-Time Homogeneous Diffusion Inpainting in 4K. , 2022, , .		4
138	3D-Coherence-Enhancing Diffusion Filtering for Matrix Fields. Computational Imaging and Vision, 2012, , 49-63.	0.6	3
139	Optic Flow Scale Space. Lecture Notes in Computer Science, 2012, , 713-724.	1.0	3
140	Progressive modes in PDE-based image compression. , 2013, , .		3
141	Poisson Noise Removal Using Multi-Frame 3D Block Matching. , 2019, , .		3
142	PDE Evolutions for M-Smoothers in One, Two, and Three Dimensions. Journal of Mathematical Imaging and Vision, 2021, 63, 157-185.	0.8	3
143	Compressing Audio Signals with Inpainting-Based Sparsification. Lecture Notes in Computer Science, 2019, , 92-103.	1.0	3
144	A Dense Pipeline for 3D Reconstruction from Image Sequences. Lecture Notes in Computer Science, 2014, , 629-640.	1.0	3

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145	Variational Exposure Fusion with Optimal Local Contrast. Lecture Notes in Computer Science, 2015, , 425-436.	1.0	3
146	Sparse Inpainting with Smoothed Particle Hydrodynamics. SIAM Journal on Imaging Sciences, 2021, 14, 1669-1705.	1.3	3
147	Editorial: Special issue for the 5th International Conference on Scale-Space and PDE Methods in Computer Vision. International Journal of Computer Vision, 2006, 70, 195-195.	10.9	2
148	Minimally Stochastic Schemes for Singular Diffusion Equations. Mathematics and Visualization, 2007, , 325-339.	0.4	2
149	Mathematische Bildverarbeitung mit Ideen aus der Natur. Mitteilungen Der Deutschen Mathematiker-Vereinigung, 2012, 20, .	0.0	2
150	Mathematical Foundations and Generalisations of the Census Transform for Robust Optic Flow Computation. Journal of Mathematical Imaging and Vision, 2015, 52, 71-86.	0.8	2
151	Modelling Image Processing with Discrete First-Order Swarms. Advances in Intelligent Systems and Computing, 2016, , 261-270.	0.5	2
152	Algorithms for Piecewise Constant Signal Approximations. , 2019, , .		2
153	Compressing Piecewise Smooth Images with the Mumford-Shah Cartoon Model. , 2021, , .		2
154	Removing multi-frame Gaussian noise by combining patch-based filters with optical flow. Journal of Electronic Imaging, 2021, 30, .	0.5	2
155	Learning Integrodifferential Models for Image Denoising. , 2021, , .		2
156	A systematic evaluation of coding strategies for sparse binary images. Signal Processing: Image Communication, 2021, 99, 116424.	1.8	2
157	The Morphological Equivalents of Relativistic and Alpha-Scale-Spaces. Lecture Notes in Computer Science, 2015, , 28-39.	1.0	2
158	Evaluating Data Terms for Variational Multi-frame Super-Resolution. Lecture Notes in Computer Science, 2017, , 590-601.	1.0	2
159	An Efficient and Stable Two-Pixel Scheme for 2D Forward-and-Backward Diffusion. Lecture Notes in Computer Science, 2017, , 94-106.	1.0	2
160	Evaluating a General Class of Filters for Image Denoising. , 2007, , 601-610.		2
161	Hyperbolic Numerics for Variational Approaches to Correspondence Problems. Lecture Notes in Computer Science, 2009, , 636-647.	1.0	2
162	Variational registration of tensor-valued images. , 2008, , .		1

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163	Can Variational Models for Correspondence Problems Benefit from Upwind Discretisations?. Journal of Mathematical Imaging and Vision, 2011, 39, 230-244.	0.8	1
164	JMIV Special Issue. Journal of Mathematical Imaging and Vision, 2011, 41, 1-2.	0.8	1
165	Pseudodifferential Inpainting: The Missing Link Between PDE- and RBF-Based Interpolation. Lecture Notes in Computer Science, 2019, , 67-78.	1.0	1
166	Learning a Generic Adaptive Wavelet Shrinkage Function for Denoising. , 2020, , .		1
167	JPEG Meets PDE-based Image Compression. , 2021, , .		1
168	Sparsification Scale-Spaces. Lecture Notes in Computer Science, 2019, , 303-314.	1.0	1
169	Modelling Stable Backward Diffusion andÂRepulsive Swarms with Convex Energies and Range Constraints. Lecture Notes in Computer Science, 2018, , 409-423.	1.0	1
170	Beauty with Variational Methods: An Optic Flow Approach to Hairstyle Simulation. , 2007, , 825-836.		1
171	Robust Variational Reconstruction from Multiple Views. , 2007, , 173-182.		1
172	Analysis of the Curvature Tensor from the Viewpoint of Signal Processing. AIP Conference Proceedings, 2008, , .	0.3	0
173	Stable Backward Diffusion Models that Minimise Convex Energies. Journal of Mathematical Imaging and Vision, 2020, 62, 941-960.	0.8	0
174	Object Segmentation Tracking from Generic Video Cues. , 2021, , .		0