Jue Wang

List of Publications by Year
in descending order

113 papers	6,494 citations	201674 27 h-index	175258 52 g-index
114 all docs	114 docs citations	114 times ranked	3782 citing authors

#	Article	IF	Citations
1	Scale-Recurrent Network for Deep Image Deblurring. , 2018, , .		708
2	Investigating Haze-Relevant Features in a Learning Framework for Image Dehazing. , 2014, , .		407
3	Detail-Revealing Deep Video Super-Resolution. , 2017, , .		334
4	Deep Video Deblurring for Hand-Held Cameras. , 2017, , .		332
5	Optimized Color Sampling for Robust Matting. , 2007, , .		310
6	Image and Video Matting: A Survey. Foundations and Trends in Computer Graphics and Vision, 2007, 3, 97-175.	4.5	263
7	Video SnapCut. ACM Transactions on Graphics, 2009, 28, 1-11.	7.2	233
8	Subspace video stabilization. ACM Transactions on Graphics, 2011, 30, 1-10.	7.2	233
9	Interactive video cutout. ACM Transactions on Graphics, 2005, 24, 585-594.	7.2	228
10	Text Localization in Natural Images Using Stroke Feature Transform and Text Covariance Descriptors. , 2013, , .		215
11	Handling outliers in non-blind image deconvolution. , 2011, , .		167
12	Handling Noise in Single Image Deblurring Using Directional Filters. , 2013, , .		147
13	Video tooning. ACM Transactions on Graphics, 2004, 23, 574-583.	7.2	141
14	Robust Image and Video Dehazing with Visual Artifact Suppression via Gradient Residual Minimization. Lecture Notes in Computer Science, 2016, , 576-591.	1.3	132
15	Deblurring Low-Light Images with Light Streaks. , 2014, , .		120
16	Video deblurring for hand-held cameras using patch-based synthesis. ACM Transactions on Graphics, 2012, 31, 1-9.	7.2	112
17	Image and Video Segmentation by Anisotropic Kernel Mean Shift. Lecture Notes in Computer Science, 2004, , 238-249.	1.3	111
18	Pause-and-play. , 2011, , .		106

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19	The cartoon animation filter. ACM Transactions on Graphics, 2006, 25, 1169-1173.	7.2	97
20	Expression flow for 3D-aware face component transfer. ACM Transactions on Graphics, 2011, 30, 1-10.	7.2	94
21	Disentangled Image Matting. , 2019, , .		80
22	Edge-based blur kernel estimation using patch priors. , 2013, , .		78
23	Soft scissors. ACM Transactions on Graphics, 2007, 26, 9.	7.2	74
24	Content-Aware Unsupervised Deep Homography Estimation. Lecture Notes in Computer Science, 2020, , 653-669.	1.3	69
25	DocUNet: Document Image Unwarping via a Stacked U-Net. , 2018, , .		68
26	Video tooning. , 2004, , .		64
27	PlenoPatch: Patch-Based Plenoptic Image Manipulation. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 1561-1573.	4.4	64
28	A no-reference metric for evaluating the quality of motion deblurring. ACM Transactions on Graphics, 2013, 32, 1-12.	7.2	63
29	Text Image Deblurring Using Text-Specific Properties. Lecture Notes in Computer Science, 2012, , 524-537.	1.3	60
30	Soft scissors. , 2007, , .		59
31	Towards Temporally-Coherent Video Matting. Lecture Notes in Computer Science, 2011, , 63-74.	1.3	47
32	Practical Deep Raw Image Denoising onÂMobile Devices. Lecture Notes in Computer Science, 2020, , 1-16.	1.3	46
33	Modeling and removing spatially-varying optical blur. , 2011, , .		45
34	NTIRE 2019 Challenge on Real Image Denoising: Methods and Results. , 2019, , .		45
35	Expression flow for 3D-aware face component transfer. , 2011, , .		40
36	Combining shape and physical modelsfor online cursive handwriting synthesis. International Journal on Document Analysis and Recognition, 2005, 7, 219-227.	3.4	38

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37	Learning Raw Image Denoising With Bayer Pattern Unification and Bayer Preserving Augmentation. , 2019, , .		38
38	Automatic triage for a photo series. ACM Transactions on Graphics, 2016, 35, 1-10.	7.2	35
39	Learning-based cursive handwriting synthesis. , 0, , .		34
40	PatchNet. ACM Transactions on Graphics, 2013, 32, 1-12.	7.2	33
41	Mirror mirror. ACM Transactions on Graphics, 2014, 33, 1-12.	7.2	32
42	Automatic Upright Adjustment of Photographs With Robust Camera Calibration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 833-844.	13.9	32
43	Learning High-Order Filters for Efficient Blind Deconvolution of Document Photographs. Lecture Notes in Computer Science, 2016, , 734-749.	1.3	31
44	A Data-Driven Approach for Facial Expression Retargeting in Video. IEEE Transactions on Multimedia, 2014, 16, 299-310.	7.2	30
45	Deep Portrait Image Completion and Extrapolation. IEEE Transactions on Image Processing, 2020, 29, 2344-2355.	9.8	29
46	Good Image Priors for Non-blind Deconvolution. Lecture Notes in Computer Science, 2014, , 231-246.	1.3	29
47	The cartoon animation filter. , 2006, , .		28
48	Content-aware dynamic timeline for video browsing. , 2010, , .		27
49	Dynamic Color Flow: A Motion-Adaptive Color Model for Object Segmentation in Video. Lecture Notes in Computer Science, 2010, , 617-630.	1.3	27
50	Simultaneous Matting and Compositing. , 2007, , .		26
51	Simultaneous Camera Path Optimization and Distraction Removal for Improving Amateur Video. IEEE Transactions on Image Processing, 2015, 24, 5982-5994.	9.8	26
52	Automatic blur-kernel-size estimation for motion deblurring. Visual Computer, 2015, 31, 733-746.	3.5	24
53	Blur-Kernel Bound Estimation From Pyramid Statistics. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 1012-1016.	8.3	24
54	EZ-sketching. ACM Transactions on Graphics, 2014, 33, 1-9.	7.2	23

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55	OIFlow: Occlusion-Inpainting Optical Flow Estimation by Unsupervised Learning. IEEE Transactions on Image Processing, 2021, 30, 6420-6433.	9.8	23
56	Structuring Lecture Videos by Automatic Projection Screen Localization and Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 1233-1246.	13.9	22
57	Robust background identification for dynamic video editing. ACM Transactions on Graphics, 2016, 35, 1-12.	7.2	22
58	Creating map-based storyboards for browsing tour videos. , 2008, , .		21
59	Facial expression editing in video using a temporally-smooth factorization. , 2012, , .		20
60	Zero-Order Reverse Filtering. , 2017, , .		20
61	Noise brush. ACM Transactions on Graphics, 2009, 28, 1-10.	7.2	19
62	SDP-GAN: Saliency Detail Preservation Generative Adversarial Networks for High Perceptual Quality Style Transfer. IEEE Transactions on Image Processing, 2021, 30, 374-385.	9.8	19
63	Discriminative Gaussian Mixtures for Interactive Image Segmentation. , 2007, , .		18
64	Unsupervised tumour segmentation in PET using local and global intensity-fitting active surface and alpha matting. Computers in Biology and Medicine, 2013, 43, 1530-1544.	7.0	18
65	Inverse image editing. ACM Transactions on Graphics, 2013, 32, 1-11.	7.2	18
66	Detecting and Removing Visual Distractors for Video Aesthetic Enhancement. IEEE Transactions on Multimedia, 2018, 20, 1987-1999.	7.2	18
67	Deblurring Low-Light Images with Light Streaks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2329-2341.	13.9	17
68	Coherent Parametric Contours for Interactive Video Object Segmentation. , 2016, , .		16
69	Live Sketch. , 2018, , .		16
70	Semi-Supervised Skin Detection by Network With Mutual Guidance. , 2019, , .		16
71	GeoNet: Deep Geodesic Networks for Point Cloud Analysis. , 2019, , .		16
72	Blind optical aberration correction by exploring geometric and visual priors. , 2015, , .		15

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73	Automatic Fence Segmentation in Videos of Dynamic Scenes. , 2016, , .		15
74	Semi-Supervised Pixel-Level Scene Text Segmentation by Mutually Guided Network. IEEE Transactions on Image Processing, 2021, 30, 8212-8221.	9.8	14
75	Removing Shadows from Images of Documents. Lecture Notes in Computer Science, 2017, , 173-183.	1.3	12
76	A perceptually motivated online benchmark for image matting. , 2009, , .		12
77	Very Low Frame-Rate Video Streaming For Face-to-Face Teleconference. , 0, , .		11
78	Kinect depth restoration via energy minimization with TV<inf>21</inf> regularization. , 2013, , .		11
79	Hybrid Image Deblurring by Fusing Edge and Power Spectrum Information. Lecture Notes in Computer Science, 2014, , 79-93.	1.3	11
80	ColorSketch: A Drawing Assistant for Generating Color Sketches from Photos. IEEE Computer Graphics and Applications, 2017, 37, 70-81.	1.2	9
81	GIF2Video: Color Dequantization and Temporal Interpolation of GIF Images. , 2019, , .		9
82	A data-driven approach for facial expression synthesis in video. , 2012, , .		8
83	Appearance Harmonization for Single Image Shadow Removal. Computer Graphics Forum, 2016, 35, 189-197.	3.0	8
84	Time slice video synthesis by robust video alignment. ACM Transactions on Graphics, 2017, 36, 1-10.	7.2	8
85	Simultaneous matting and compositing. , 2006, , .		7
86	Image Matting with Transductive Inference. Lecture Notes in Computer Science, 2011, , 239-250.	1.3	7
87	TrackCam. ACM Transactions on Graphics, 2014, 33, 1-11.	7.2	7
88	Automatic upright adjustment of photographs. , 2012, , .		6
89	A Progressive Triâ€level Segmentation Approach for Topologyâ€Changeâ€Aware Video Matting. Computer Graphics Forum, 2013, 32, 245-253.	3.0	6
90	The video mesh: A data structure for image-based three-dimensional video editing. , 2011, , .		4

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91	Region-based active surface modelling and alpha matting for unsupervised tumour segmentation in PET. , 2012, , .		4
92	Confidence-driven image co-matting. Computers and Graphics, 2014, 38, 131-139.	2.5	4
93	PanoSwarm. , 2016, , .		4
94	Discriminative Indexing for Probabilistic Image Patch Priors. Lecture Notes in Computer Science, 2014, , 200-214.	1.3	4
95	3D defect segmentation on CT volume data using morphology and resample techniques. Journal of X-Ray Science and Technology, 2013, 21, 545-556.	1.0	3
96	PaperLego. , 2014, , .		3
97	Noise brush. , 2009, , .		3
98	Inside interactive video cutout. , 2005, , .		2
99	Development of system on 3D image visualization and analyzing for industrial computed tomography. , 2007, , .		2
100	A Video-Based System for Hand-Driven Stop-Motion Animation. IEEE Computer Graphics and Applications, 2013, 33, 70-81.	1.2	2
101	Reâ€Compositable Panoramic Selfie with Robust Multiâ€Frame Segmentation and Stitching. Computer Graphics Forum, 2016, 35, 227-236.	3.0	2
102	Video Vectorization via Bipartite Diffusion Curves Propagation and Optimization. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 3265-3276.	4.4	2
103	Reconstruction of deforming aortas in two-photon autofluorescence image sequences. Applied Optics, 2003, 42, 834.	2.1	1
104	Supervised Semantic Gradient Extraction Using Linear-Time Optimization. , 2013, , .		1
105	Tracking deforming aortas in two-photon autofluorescence images and its application on quantitative evaluation of aorta-related drugs. Computerized Medical Imaging and Graphics, 2004, 28, 51-59.	5.8	0
106	The application of volumetric region growing in segmentation for volume data from industrial computed tomography. , 2005, 6041, 112.		0
107	A computed tomographic imaging system for experimentation. Proceedings of SPIE, 2007, , .	0.8	0
108	Defects Detection for Casting of Railway Freight Car Using X-Ray Radiography. Applied Mechanics and Materials, 0, 80-81, 951-955.	0.2	0

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109	Cutting Display of Industrial CT Volume Data Based on GPU. Advanced Materials Research, 2011, 271-273, 1096-1102.	0.3	0
110	Fully automated registration of 3D CT data to CAD model for surface deviation measurement. Journal of X-Ray Science and Technology, 2020, 27, 1101-1119.	1.0	0
111	THE PROJECTION OF WAVELETS AND ITS APPLICATION IN EDGE DETECTION OF COMPUTERIZED TOMOGRAPHY. , 2004, , .		0
112	VISUALIZATION OF VOLUME DATA FROM INDUSTRIAL COMPUTED TOMOGRAPHY FOR INDUSTRIAL APPLICATIONS. , 2005, , .		0
113	Skin Textural Generation via Blue-noise Gabor Filtering based Generative Adversarial Network. , 2020, , .		0