

Yu-Wing Tai

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

4,609
citations

279798

23
h-index

254184

43
g-index

90
all docs

90
docs citations

90
times ranked

3399
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual Convolutional Neural Networks for Low-Level Vision. International Journal of Computer Vision, 2022, 130, 1440-1458.	15.6	22
2	Physics-Based Generative Adversarial Models for Image Restoration and Beyond. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2449-2462.	13.9	89
3	Hierarchical Generation of Human Pose With Part-Based Layer Representation. IEEE Transactions on Image Processing, 2021, 30, 7856-7866.	9.8	1
4	An Accurate and Lightweight Method for Human Body Image Super-Resolution. IEEE Transactions on Image Processing, 2021, 30, 2888-2897.	9.8	12
5	Deblurring. , 2021, , 243-247.		0
6	Blur Estimation. , 2021, , 100-104.		0
7	Deep Video Matting via Spatio-Temporal Alignment and Aggregation. , 2021, , .		28
8	Semantic Image Matting. , 2021, , .		50
9	Semi-Calibrated Photometric Stereo. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 232-245.	13.9	25
10	Blur Estimation. , 2020, , 1-5.		0
11	Deblurring. , 2020, , 1-5.		0
12	LADN: Local Adversarial Disentangling Network for Facial Makeup and De-Makeup. , 2019, , .		53
13	MMFace: A Multi-Metric Regression Network for Unconstrained Face Reconstruction. , 2019, , .		33
14	Depth from a Light Field Image with Learning-Based Matching Costs. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 297-310.	13.9	63
15	Fast Randomized Singular Value Thresholding for Low-Rank Optimization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 376-391.	13.9	61
16	ELD-Net: An Efficient Deep Learning Architecture for Accurate Saliency Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1599-1610.	13.9	40
17	Deep High Dynamic Range Imaging with Large Foreground Motions. Lecture Notes in Computer Science, 2018, , 120-135.	1.3	130
18	Attribute-Guided Face Generation Using Conditional CycleGAN. Lecture Notes in Computer Science, 2018, , 293-308.	1.3	112

#	ARTICLE	IF	CITATIONS
19	Deep Video Generation, Prediction and Completion of Human Action Sequences. Lecture Notes in Computer Science, 2018, , 374-390.	1.3	63
20	Image Generation from Sketch Constraint Using Contextual GAN. Lecture Notes in Computer Science, 2018, , 213-228.	1.3	74
21	Refining Geometry from Depth Sensors using IR Shading Images. International Journal of Computer Vision, 2017, 122, 1-16.	15.6	19
22	Category-specific Salient View Selection via Deep Convolutional Neural Networks. Computer Graphics Forum, 2017, 36, 313-328.	3.0	11
23	Learning Discriminative Data Fitting Functions for Blind Image Deblurring. , 2017, , .		21
24	Multi-View Object Extraction With Fractional Boundaries. IEEE Transactions on Image Processing, 2016, 25, 3639-3654.	9.8	9
25	Photometric Stereo Under Non-uniform Light Intensities and Exposures. Lecture Notes in Computer Science, 2016, , 170-186.	1.3	15
26	Natural Image Matting Using Deep Convolutional Neural Networks. Lecture Notes in Computer Science, 2016, , 626-643.	1.3	95
27	Robust All-in-focus Super-Resolution for Focal Stack Photography. IEEE Transactions on Image Processing, 2016, 25, 1-1.	9.8	16
28	Partial Sum Minimization of Singular Values in Robust PCA: Algorithm and Applications. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 744-758.	13.9	172
29	RGB-Guided Hyperspectral Image Upsampling. , 2015, , .		46
30	Accurate depth map estimation from a lenslet light field camera. , 2015, , .		329
31	A simulation based method for vehicle motion prediction. Computer Vision and Image Understanding, 2015, 136, 79-91.	4.7	3
32	Data-driven depth map refinement via multi-scale sparse representation. , 2015, , .		15
33	Robust High Dynamic Range Imaging by Rank Minimization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 1219-1232.	13.9	152
34	Exploiting Shading Cues in Kinect IR Images for Geometry Refinement. , 2014, , .		33
35	A randomized algorithm for natural object colorization. Computer Graphics Forum, 2014, 33, 205-214.	3.0	4
36	High-Quality Depth Map Upsampling and Completion for RGB-D Cameras. IEEE Transactions on Image Processing, 2014, 23, 5559-5572.	9.8	94

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37	Accurate and real-time depth video acquisition using Kinect’s stereo camera fusion. Optical Engineering, 2014, 53, 1.	1.0	5
38	A Physically-Based Approach to Reflection Separation: From Physical Modeling to Constrained Optimization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 209-221.	13.9	99
39	Salient Region Detection via High-Dimensional Color Transform. , 2014, , .		203
40	Consistent Matting for Light Field Images. Lecture Notes in Computer Science, 2014, , 90-104.	1.3	23
41	Deblurring. , 2014, , 168-171.		0
42	Blur Estimation. , 2014, , 57-59.		0
43	A 3D Imaging Framework Based on High-Resolution Photometric-Stereo and Low-Resolution Depth. International Journal of Computer Vision, 2013, 102, 18-32.	15.6	11
44	Nonlinear Camera Response Functions and Image Deblurring: Theoretical Analysis and Practice. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2498-2512.	13.9	68
45	Partial Sum Minimization of Singular Values in RPCA for Low-Level Vision. , 2013, , .		45
46	Modeling the Calibration Pipeline of the Lytro Camera for High Quality Light-Field Image Reconstruction. , 2013, , .		105
47	Multiview Photometric Stereo Using Planar Mesh Parameterization. , 2013, , .		34
48	Shading-Based Shape Refinement of RGB-D Images. , 2013, , .		95
49	A Learning-Based Approach to Reduce JPEG Artifacts in Image Matting. , 2013, , .		20
50	Outdoor photometric stereo. , 2013, , .		6
51	Video Matting Using Multi-frame Nonlocal Matting Laplacian. Lecture Notes in Computer Science, 2012, , 540-553.	1.3	27
52	Modeling photo composition and its application to photo re-arrangement. , 2012, , .		36
53	Lucas-Kanade image registration using camera parameters. , 2012, , .		1
54	Registration Based Non-uniform Motion Deblurring. Computer Graphics Forum, 2012, 31, 2183-2192.	3.0	29

#	ARTICLE	IF	CITATIONS
55	Probabilistic cost model for nearest neighbor search in image retrieval. Computer Vision and Image Understanding, 2012, 116, 991-998.	4.7	6
56	Nonlinear camera response functions and image deblurring. , 2012, , .		7
57	A physically-based approach to reflection separation. , 2012, , .		3
58	Identigram/watermark removal using cross-channel correlation. , 2012, , .		4
59	Motion-aware noise filtering for deblurring of noisy and blurry images. , 2012, , .		15
60	A Tensor Voting Approach for Multi-view 3D Scene Flow Estimation and Refinement. Lecture Notes in Computer Science, 2012, , 288-302.	1.3	9
61	Semantic colorization with internet images. ACM Transactions on Graphics, 2011, 30, 1-8.	7.2	155
62	High quality depth map upsampling for 3D-TOF cameras. , 2011, , .		383
63	High-resolution hyperspectral imaging via matrix factorization. , 2011, , .		220
64	Richardson-Lucy Deblurring for Scenes under a Projective Motion Path. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 1603-1618.	13.9	208
65	Motion Regularization for Matting Motion Blurred Objects. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 2329-2336.	13.9	35
66	Around the world in 80 seconds. , 2011, , .		0
67	Non-uniform motion deblurring for camera shakes using image registration. , 2011, , .		3
68	High-Quality Reflection Separation Using Polarized Images. IEEE Transactions on Image Processing, 2011, 20, 3393-3405.	9.8	22
69	Two-phase approach for multi-view object extraction. , 2011, , .		8
70	Semantic colorization with internet images. , 2011, , .		39
71	A framework for ultra high resolution 3D imaging. , 2010, , .		15
72	Motion regularization for matting motion blurred objects. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
73	Super resolution using edge prior and single image detail synthesis. , 2010, , .		241
74	Coded exposure imaging for projective motion deblurring. , 2010, , .		49
75	Correction of Spatially Varying Image and Video Motion Blur Using a Hybrid Camera. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1012-1028.	13.9	88
76	Colorization for Single Image Super Resolution. Lecture Notes in Computer Science, 2010, , 323-336.	1.3	6
77	Single image defocus map estimation using local contrast prior. , 2009, , .		23
78	Detail Recovery for Single-image Defocus Blur. IPSJ Transactions on Computer Vision and Applications, 2009, 1, 95-104.	4.4	12
79	Image/video deblurring using a hybrid camera. , 2008, , .		30
80	Texture amendment. ACM Transactions on Graphics, 2008, 27, 1-6.	7.2	11
81	Soft Color Segmentation and Its Applications. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1520-1537.	13.9	89
82	Robust Estimation of Texture Flow via Dense Feature Sampling. , 2007, , .		5
83	Video repairing under variable illumination using cyclic motions. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 832-839.	13.9	71
84	Simultaneous Image Denoising and Compression by Multiscale 2D Tensor Voting. , 2006, , .		1
85	Video repairing: inference of foreground and background under severe occlusion. , 0, , .		42
86	Local Color Transfer via Probabilistic Segmentation by Expectation-Maximization. , 0, , .		92
87	Perceptually-Inspired and Edge-Directed Color Image Super-Resolution. , 0, , .		17
88	Hybrid-imaging for motion deblurring. , 0, , 57-74.		0