Yu-Wing Tai

List of Publications by Year
in descending order

88 papers	4,609 citations	279701 23 h-index	254106 43 g-index
90 all docs	90 docs citations	90 times ranked	3399 citing authors

#	Article	IF	Citations
1	High quality depth map upsampling for 3D-TOF cameras. , 2011, , .		383
2	Accurate depth map estimation from a lenslet light field camera. , 2015, , .		329
3	Super resolution using edge prior and single image detail synthesis. , 2010, , .		241
4	High-resolution hyperspectral imaging via matrix factorization. , 2011, , .		220
5	Richardson-Lucy Deblurring for Scenes under a Projective Motion Path. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 1603-1618.	9.7	208
6	Salient Region Detection via High-Dimensional Color Transform. , 2014, , .		203
7	Partial Sum Minimization of Singular Values in Robust PCA: Algorithm and Applications. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 744-758.	9.7	172
8	Semantic colorization with internet images. ACM Transactions on Graphics, 2011, 30, 1-8.	4.9	155
9	Robust High Dynamic Range Imaging by Rank Minimization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 1219-1232.	9.7	152
10	Deep High Dynamic Range Imaging with Large Foreground Motions. Lecture Notes in Computer Science, 2018, , 120-135.	1.0	130
11	Attribute-Guided Face Generation Using Conditional CycleGAN. Lecture Notes in Computer Science, 2018, , 293-308.	1.0	112
12	Modeling the Calibration Pipeline of the Lytro Camera for High Quality Light-Field Image Reconstruction. , 2013, , .		105
13	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.	9.7	99
14	Shading-Based Shape Refinement of RGB-D Images. , 2013, , .		95
15	Natural Image Matting Using Deep Convolutional Neural Networks. Lecture Notes in Computer Science, 2016, , 626-643.	1.0	95
16	High-Quality Depth Map Upsampling and Completion for RGB-D Cameras. IEEE Transactions on Image Processing, 2014, 23, 5559-5572.	6.0	94
17	Local Color Transfer via Probabilistic Segmentation by Expectation-Maximization. , 0, , .		92
18	Soft Color Segmentation and Its Applications. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1520-1537.	9.7	89

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19	Physics-Based Generative Adversarial Models for Image Restoration and Beyond. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2449-2462.	9.7	89
20	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.	9.7	88
21	Image Generation from Sketch Constraint Using Contextual GAN. Lecture Notes in Computer Science, 2018, , 213-228.	1.0	74
22	Video repairing under variable illumination using cyclic motions. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 832-839.	9.7	71
23	Nonlinear Camera Response Functions and Image Deblurring: Theoretical Analysis and Practice. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2498-2512.	9.7	68
24	Depth from a Light Field Image with Learning-Based Matching Costs. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 297-310.	9.7	63
25	Deep Video Generation, Prediction and Completion of Human Action Sequences. Lecture Notes in Computer Science, 2018, , 374-390.	1.0	63
26	Fast Randomized Singular Value Thresholding for Low-Rank Optimization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 376-391.	9.7	61
27	LADN: Local Adversarial Disentangling Network for Facial Makeup and De-Makeup. , 2019, , .		53
28	Semantic Image Matting. , 2021, , .		50
29	Coded exposure imaging for projective motion deblurring. , 2010, , .		49
30	RGB-Guided Hyperspectral Image Upsampling. , 2015, , .		46
31	Partial Sum Minimization of Singular Values in RPCA for Low-Level Vision. , 2013, , .		45
32	Video repairing: inference of foreground and background under severe occlusion. , 0, , .		42
33	ELD-Net: An Efficient Deep Learning Architecture for Accurate Saliency Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1599-1610.	9.7	40
34	Semantic colorization with internet images. , 2011, , .		39
35	Modeling photo composition and its application to photo re-arrangement. , 2012, , .		36
36	Motion Regularization for Matting Motion Blurred Objects. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 2329-2336.	9.7	35

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37	Multiview Photometric Stereo Using Planar Mesh Parameterization. , 2013, , .		34
38	Exploiting Shading Cues in Kinect IR Images for Geometry Refinement. , 2014, , .		33
39	MMFace: A Multi-Metric Regression Network for Unconstrained Face Reconstruction. , 2019, , .		33
40	Image/video deblurring using a hybrid camera. , 2008, , .		30
41	Registration Based Non‐uniform Motion Deblurring. Computer Graphics Forum, 2012, 31, 2183-2192.	1.8	29
42	Deep Video Matting via Spatio-Temporal Alignment and Aggregation. , 2021, , .		28
43	Video Matting Using Multi-frame Nonlocal Matting Laplacian. Lecture Notes in Computer Science, 2012, , 540-553.	1.0	27
44	Semi-Calibrated Photometric Stereo. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 232-245.	9.7	25
45	Single image defocus map estimation using local contrast prior. , 2009, , .		23
46	Consistent Matting for Light Field Images. Lecture Notes in Computer Science, 2014, , 90-104.	1.0	23
47	High-Quality Reflection Separation Using Polarized Images. IEEE Transactions on Image Processing, 2011, 20, 3393-3405.	6.0	22
48	Dual Convolutional Neural Networks for Low-Level Vision. International Journal of Computer Vision, 2022, 130, 1440-1458.	10.9	22
49	Learning Discriminative Data Fitting Functions for Blind Image Deblurring. , 2017, , .		21
50	A Learning-Based Approach to Reduce JPEG Artifacts in Image Matting. , 2013, , .		20
51	Refining Geometry from Depth Sensors using IR Shading Images. International Journal of Computer Vision, 2017, 122, 1-16.	10.9	19
52	Perceptually-Inspired and Edge-Directed Color Image Super-Resolution. , 0, , .		17
53	Robust All-in-focus Super-Resolution for Focal Stack Photography. IEEE Transactions on Image Processing, 2016, 25, 1-1.	6.0	16
54	A framework for ultra high resolution 3D imaging. , 2010, , .		15

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55	Motion-aware noise filtering for deblurring of noisy and blurry images. , 2012, , .		15
56	Data-driven depth map refinement via multi-scale sparse representation. , 2015, , .		15
57	Photometric Stereo Under Non-uniform Light Intensities and Exposures. Lecture Notes in Computer Science, 2016, , 170-186.	1.0	15
58	Detail Recovery for Single-image Defocus Blur. IPSJ Transactions on Computer Vision and Applications, 2009, 1, 95-104.	4.4	12
59	An Accurate and Lightweight Method for Human Body Image Super-Resolution. IEEE Transactions on Image Processing, 2021, 30, 2888-2897.	6.0	12
60	Texture amendment. ACM Transactions on Graphics, 2008, 27, 1-6.	4.9	11
61	A 3D Imaging Framework Based on High-Resolution Photometric-Stereo and Low-Resolution Depth. International Journal of Computer Vision, 2013, 102, 18-32.	10.9	11
62	Category†Specific Salient View Selection via Deep Convolutional Neural Networks. Computer Graphics Forum, 2017, 36, 313-328.	1.8	11
63	Multi-View Object Extraction With Fractional Boundaries. IEEE Transactions on Image Processing, 2016, 25, 3639-3654.	6.0	9
64	A Tensor Voting Approach for Multi-view 3D Scene Flow Estimation and Refinement. Lecture Notes in Computer Science, 2012, , 288-302.	1.0	9
65	Two-phase approach for multi-view object extraction. , 2011, , .		8
66	Nonlinear camera response functions and image deblurring. , 2012, , .		7
67	Probabilistic cost model for nearest neighbor search in image retrieval. Computer Vision and Image Understanding, 2012, 116, 991-998.	3.0	6
68	Outdoor photometric stereo. , 2013, , .		6
69	Colorization for Single Image Super Resolution. Lecture Notes in Computer Science, 2010, , 323-336.	1.0	6
70	Robust Estimation of Texture Flow via Dense Feature Sampling. , 2007, , .		5
71	Accurate and real-time depth video acquisition using Kinect†"stereo camera fusion. Optical Engineering, 2014, 53, 1.	0.5	5
72	Identigram/watermark removal using cross-channel correlation. , 2012, , .		4

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73	A randomized algorithm for natural object colorization. Computer Graphics Forum, 2014, 33, 205-214.	1.8	4
74	Non-uniform motion deblurring for camera shakes using image registration. , 2011, , .		3
75	A physically-based approach to reflection separation. , 2012, , .		3
76	A simulation based method for vehicle motion prediction. Computer Vision and Image Understanding, 2015, 136, 79-91.	3.0	3
77	Simultaneous Image Denoising and Compression by Multiscale 2D Tensor Voting. , 2006, , .		1
78	Lucas-Kanade image registration using camera parameters. , 2012, , .		1
79	Hierarchical Generation of Human Pose With Part-Based Layer Representation. IEEE Transactions on Image Processing, 2021, 30, 7856-7866.	6.0	1
80	Motion regularization for matting motion blurred objects. , 2010, , .		0
81	Around the world in 80 seconds. , 2011, , .		0
82	Hybrid-imaging for motion deblurring. , 0, , 57-74.		0
83	Deblurring. , 2021, , 243-247.		0
84	Blur Estimation. , 2021, , 100-104.		0
85	Deblurring. , 2014, , 168-171.		0
86	Blur Estimation. , 2014, , 57-59.		0
87	Blur Estimation. , 2020, , 1-5.		0
88	Deblurring. , 2020, , 1-5.		0