Kwanghoon Sohn

List of Publications by Year
in descending order

41 papers	1,384 citations	430754 18 h-index	501076 28 g-index
41 all docs	41 docs citations	41 times ranked	1280 citing authors

#	Article	IF	Citations
1	Dense Cross-Modal Correspondence Estimation With the Deep Self-Correlation Descriptor. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2345-2359.	9.7	3
2	Adversarial Confidence Estimation Networks for Robust Stereo Matching. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6875-6889.	4.7	5
3	Unified Confidence Estimation Networks for Robust Stereo Matching. IEEE Transactions on Image Processing, 2019, 28, 1299-1313.	6.0	31
4	Deep Monocular Depth Estimation via Integration of Global and Local Predictions. IEEE Transactions on Image Processing, 2018, 27, 4131-4144.	6.0	71
5	Robust interactive image segmentation using structure-aware labeling. Expert Systems With Applications, 2017, 79, 90-100.	4.4	12
6	Fast Domain Decomposition for Global Image Smoothing. IEEE Transactions on Image Processing, 2017, 26, 4079-4091.	6.0	20
7	Lazy dragging: effortless bounding-box drawing for touch-screen devices. IEEE Transactions on Consumer Electronics, 2017, 63, 93-100.	3.0	1
8	LAT: Local area transform for cross modal correspondence matching. Pattern Recognition, 2017, 63, 218-228.	5.1	4
9	Feature Augmentation for Learning Confidence Measure in Stereo Matching. IEEE Transactions on Image Processing, 2017, 26, 6019-6033.	6.0	30
10	Deep stereo confidence prediction for depth estimation. , 2017, , .		19
11	Depth prediction from a single image with conditional adversarial networks. , 2017, , .		22
12	Homography flow for dense correspondences. , 2016, , .		0
13	Edge-aware image smoothing using commute time distances. , 2016, , .		2
14	Non-parametric human segmentation using support vector machine. IEEE Transactions on Consumer Electronics, 2016, 62, 150-158.	3.0	9
15	Real-time rear obstacle detection using reliable disparity for driver assistance. Expert Systems With Applications, 2016, 56, 186-196.	4.4	16
16	Rear obstacle detection system with fisheye stereo camera using HCT. Expert Systems With Applications, 2015, 42, 6295-6305.	4.4	26
17	Depth Analogy: Data-Driven Approach for Single Image Depth Estimation Using Gradient Samples. IEEE Transactions on Image Processing, 2015, 24, 5953-5966.	6.0	36
18	Real-time illumination invariant lane detection for lane departure warning system. Expert Systems With Applications, 2015, 42, 1816-1824.	4.4	173

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19	Reliability-Based Multiview Depth Enhancement Considering Interview Coherence. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 603-616.	5.6	26
20	Data-driven single image depth estimation using weighted median statistics. , 2014, , .		8
21	Fast Global Image Smoothing Based on Weighted Least Squares. IEEE Transactions on Image Processing, 2014, 23, 5638-5653.	6.0	291
22	Probability-Based Rendering for View Synthesis. IEEE Transactions on Image Processing, 2014, 23, 870-884.	6.0	29
23	Gradient-Enhancing Conversion for Illumination-Robust Lane Detection. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 1083-1094.	4.7	174
24	An independent motion and disparity vector prediction method for multiview video coding. , 2012, , .		1
25	Real-time depth range estimation and its application to mobile stereo camera. , 2012, , .		2
26	An Objective Video Quality Metric for Compressed Stereoscopic Video. Circuits, Systems, and Signal Processing, 2012, 31, 1089-1107.	1.2	25
27	Cost aggregation with anisotropic diffusion in feature space for hybrid stereo matching. , 2011, , .		1
28	UPnP single event mechanism for OPRoS robot S/W platform. , 2010, , .		0
29	An asymmetric post-processing for correspondence problem. Signal Processing: Image Communication, 2010, 25, 130-142.	1.8	9
30	3D access control system of multiview sequence contents. , 2009, , .		0
31	2D/3D freeview video generation for 3DTV system. Signal Processing: Image Communication, 2009, 24, 31-48.	1.8	40
32	3-D Video Processing for 3-D TV. , 2009, , 251-278.		0
33	A Stereoscopic Video Generation Method Using Stereoscopic Display Characterization and Motion Analysis. IEEE Transactions on Broadcasting, 2008, 54, 188-197.	2.5	63
34	Cost Aggregation and Occlusion Handling With WLS in Stereo Matching. IEEE Transactions on Image Processing, 2008, 17, 1431-1442.	6.0	91
35	Fast Disparity and Motion Estimation for Multi-view Video Coding. IEEE Transactions on Consumer Electronics, 2007, 53, 712-719.	3.0	58
36	Efficient disparity vector coding for multiview sequences. Signal Processing: Image Communication, 2004, 19, 539-553.	1.8	10

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37	A multiview sequence CODEC with view scalability. Signal Processing: Image Communication, 2004, 19, 239-256.	1.8	27
38	Impulsive noise filtering based on noise detection in corrupted digital color images. Circuits, Systems, and Signal Processing, 2001, 20, 643-654.	1.2	3
39	Edge-preserving disparity estimation and disparity-compensated intermediate view reconstruction for stereo images. Circuits, Systems, and Signal Processing, 2001, 20, 185-207.	1.2	0
40	Interpolation using neural networks for digital still cameras. IEEE Transactions on Consumer Electronics, 2000, 46, 610-616.	3.0	45
41	Selective coding of human faces using wavelets. , 0, , .		1