Hui-Liang Shen

List of Publications by Citations

52 papers	701 citations	15 h-index	24 g-index
59 ext. papers	901 ext. citations	3.7 avg, IF	4.48 L-index

#	Paper	IF	Citations
52	Chromaticity-based separation of reflection components in a single image. *Pattern Recognition*, **2008**, 41, 2461-2469	7.7	74
51	Reflectance reconstruction for multispectral imaging by adaptive Wiener estimation. *Optics Express* , **2007**, 15, 15545-54	3.3	72
50	Simple and efficient method for specularity removal in an image. *Applied Optics*, **2009**, 48, 2711-9	0.2	62
49	Real-time highlight removal using intensity ratio. *Applied Optics*, **2013**, 52, 4483-93	1.7	61
48	Improved reflectance reconstruction for multispectral imaging by combining different techniques. *Optics Express*, **2007**, 15, 5531-6	3.3	37
47	Machine learning guided rapid focusing with sensor-less aberration corrections. *Optics Express*, **2018**, 26, 30162-30171	3.3	30
46	Spectral characterization of a color scanner by adaptive estimation. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2004**, 21, 1125-30	1.8	27
45	Spectral characterization of a color scanner based on optimized adaptive estimation. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2006**, 23, 1566-9	1.8	24
44	Multispectral Image Out-of-Focus Deblurring Using Interchannel Correlation. *IEEE Transactions on Image Processing*, **2015**, 24, 4433-45	8.7	21
43	Normalized Total Gradient: A New Measure for Multispectral Image Registration. *IEEE Transactions on Image Processing*, **2018**, 27, 1297-1310	8.7	21
42	Optimal selection of representative colors for spectral reflectance reconstruction in a multispectral imaging system. *Applied Optics*, **2008**, 47, 2494-502	1.7	21
41	An unsupervised method for dominant colour region segmentation in yarn-dyed fabrics. *Coloration Technology*, **2013**, 129, 389-397	2	19
40	Multispectral Image Super-Resolution via RGB Image Fusion and Radiometric Calibration. *IEEE Transactions on Image Processing*, **2019**, 28, 1783-1797	8.7	16
39	Distributed Graph Hashing. *IEEE Transactions on Cybernetics*, **2019**, 49, 1896-1908	10.2	16
38	Estimation of spectral reflectance of object surfaces with the consideration of perceptual color space. *Optics Letters*, **2007**, 32, 96-8	3	15
37	An investigation of how the texture surface of a fabric influences its instrumental color. *Color Research and Application*, **2015**, 40, 472-482	1.3	13
36	Estimating Generalized Gaussian Blur Kernels for Out-of-Focus Image Deblurring. *IEEE Transactions on Circuits and Systems for Video Technology*, **2021**, 31, 829-843	6.4	13

35	A novel method for weft and warp yarn segmentation in multicolour yarn-dyed fabric images. *Coloration Technology*, **2015**, 131, 165-171	2	12
34	Autofocus for multispectral camera using focus symmetry. *Applied Optics*, **2012**, 51, 2616-23	1.7	11
33	Efficient Photometric Stereo Using Kernel Regression. *IEEE Transactions on Image Processing*, **2017**, 26, 439-451	8.7	10
32	An efficient method for solid-colour and multicolour region segmentation in real yarn-dyed fabric images. *Coloration Technology*, **2015**, 131, 120-130	2	10
31	Photometric Stereo for General BRDFs via Reflection Sparsity Modeling. *IEEE Transactions on Image Processing*, **2015**, 24, 4888-903	8.7	9
30	An asymmetric interdependent networks model for cyber-physical systems. *Chaos*, **2020**, 30, 053135	3.3	9
29	Analysis of Malware-Induced Cyber Attacks in Cyber-Physical Power Systems. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2020**, 67, 3482-3486	3.5	9
28	Fast Multispectral Imaging by Spatial Pixel-Binning and Spectral Unmixing. *IEEE Transactions on Image Processing*, **2016**, 25, 3612-25	8.7	8
27	Boosting Structure Consistency for Multispectral and Multimodal Image Registration. *IEEE Transactions on Image Processing*, **2020**, 29, 5147-5162	8.7	7
26	BVMatch: Lidar-Based Place Recognition Using Bird's-Eye View Images. *IEEE Robotics and Automation Letters*, **2021**, 6, 6076-6083	4.2	7
25	KIMEL: A kernel incremental metalearning algorithm. *Signal Processing*, **2013**, 93, 1586-1596	4.4	6
24	Cascading failures in spatial complex networks. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 559, 125071	3.3	6
23	A multispectral imaging approach to colour measurement and colour matching of single yarns without winding. *Coloration Technology*, **2015**, 131, 342-351	2	5
22	Wavefront reconstruction based on deep transfer learning for microscopy. *Optics Express*, **2020**, 28, 20738-20747	3.5	5
21	Equivalent Continuous Formulation of General Hashing Problem. *IEEE Transactions on Cybernetics*, **2021**, 51, 4089-4099	10.2	4
20	Robust surface reconstruction from gradient fields. *Electronics Letters*, **2012**, 48, 375	1.1	4
19	Unaligned Hyperspectral Image Fusion via Registration and Interpolation Modeling. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-14	8.1	4
18	Empirical model for matching spectrophotometric reflectance of yarn windings and multispectral imaging reflectance of single strands of yarns. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2015**, 32, 1459-67	1.8	3

17	Color specification of a single strand of yarn from a multispectral image. *Color Research and Application*, **2016**, 41, 500-512	1.3	3
16	Colour matching comparison between spectrophotometric and multispectral imaging measurements. *Coloration Technology*, **2016**, 132, 17-27	2	3
15	Block-based multispectral image registration with application to spectral color measurement. *Optics Communications*, **2019**, 451, 46-54	2	3
14	Correcting cross-media instrument metamerism for reflectance estimation in multispectral imaging. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2011**, 28, 511-6	1.8	3
13	Analysis and synthesis of multicolored objects in a single image. *Optics Letters*, **2005**, 30, 2378-80	3	3
12	Colorimetric characterization of imaging device by total color difference minimization. *Journal of Zhejiang University: Science A*, **2006**, 7, 1041-1045	2.1	3
11	Three-Channel Infrared Imaging for Object Detection in Haze. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 1-1	5.2	3
10	Recoloring textile fabric images based on improved fuzzy clustering. *Color Research and Application* , **2017**, 42, 115-123	1.3	2
9	Estimation of optoelectronic conversion functions of imaging devices without using gray samples. *Color Research and Application*, **2008**, 33, 135-141	1.3	2
8	Distributed Discrete Hashing by Equivalent Continuous Formulation. *IEEE Transactions on Signal and Information Processing Over Networks*, **2020**, 6, 196-210	2.8	1
7	Decomposition of shading and reflectance from a texture image. *Optics Letters*, **2009**, 34, 64-6	3	1
6	Robustness improvement for cyber physical system based on an optimization model of interdependent constraints. *Chaos*, **2021**, 31, 033125	3.3	1
5	LiDAR-Based Global Localization Using Histogram of Orientations of Principal Normals. *IEEE Transactions on Intelligent Vehicles*, **2022**, 1-1	5	1
4	Cyber Protection for Malware Attack Resistance in Cyber-Physical Power Systems. *IEEE Systems Journal*, **2022**, 1-9	4.3	0
3	FocusNet: Classifying better by focusing on confusing classes. *Pattern Recognition*, **2022**, 129, 108709	7.7	0
2	Eliminating material dependency in spectra measurement via non-neighbouring band regression. *Coloration Technology*, **2016**, 132, 186-192	2	
1	Multispectral Image Super-Resolution Using Structure-Guided RGB Image Fusion. *Lecture Notes in Computer Science*, **2018**, 155-167	0.9	