Boxin Shi

List of Publications by Year
in descending order

66	2,039	393982	433756
papers	citations	19 h-index	31 g-index

66	66	66	825
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Data-Free Learning of Student Networks. , 2019, , .		157
2	Robust Photometric Stereo via Low-Rank Matrix Completion and Recovery. Lecture Notes in Computer Science, 2011, , 703-717.	1.0	113
3	Benchmarking Single-Image Reflection Removal Algorithms. , 2017, , .		100
4	A Benchmark Dataset and Evaluation for Non-Lambertian and Uncalibrated Photometric Stereo. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 271-284.	9.7	95
5	Self-calibrating photometric stereo. , 2010, , .		93
6	Bi-Polynomial Modeling of Low-Frequency Reflectances. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1078-1091.	9.7	93
7	Depth of field guided reflection removal. , 2016, , .		92
8	Deep Photometric Stereo Network. , 2017, , .		88
9	A Benchmark Dataset and Evaluation for Non-Lambertian and Uncalibrated Photometric Stereo. , 2016, , .		84
10	CRRN: Multi-scale Guided Concurrent Reflection Removal Network. , 2018, , .		74
11	Self-Calibrating Deep Photometric Stereo Networks. , 2019, , .		72
12	Depth Sensing Using Geometrically Constrained Polarization Normals. International Journal of Computer Vision, 2017, 125, 34-51.	10.9	54
13	CoRRN: Cooperative Reflection Removal Network. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 2969-2982.	9.7	50
14	Neuromorphic Camera Guided High Dynamic Range Imaging. , 2020, , .		49
15	Multi-View Photometric Stereo: A Robust Solution and Benchmark Dataset for Spatially Varying Isotropic Materials. IEEE Transactions on Image Processing, 2020, 29, 4159-4173.	6.0	45
16	Region-Aware Reflection Removal With Unified Content and Gradient Priors. IEEE Transactions on Image Processing, 2018, 27, 2927-2941.	6.0	43
17	SPLINE-Net: Sparse Photometric Stereo Through Lighting Interpolation and Normal Estimation Networks. , 2019, , .		42
18	Radiometric Calibration by Rank Minimization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 144-156.	9.7	41

#	Article	IF	Citations
19	Deep Shape from Polarization. Lecture Notes in Computer Science, 2020, , 554-571.	1.0	39
20	Deep Photometric Stereo for Non-Lambertian Surfaces. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 129-142.	9.7	37
21	Distilling Portable Generative Adversarial Networks for Image Translation. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 3585-3592.	3.6	36
22	Optimizing Latent Distributions for Non-Adversarial Generative Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	9.7	32
23	Multirobot Object Transport via Robust Caging. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 270-280.	5.9	29
24	Elevation Angle from Reflectance Monotonicity: Photometric Stereo for General Isotropic Reflectances. Lecture Notes in Computer Science, 2012, , 455-468.	1.0	29
25	Context-Aware Cross-Attention for Skeleton-Based Human Action Recognition. IEEE Access, 2020, 8, 15280-15290.	2.6	26
26	Depth-Aware Stereo Video Retargeting. , 2018, , .		24
27	Learning to Jointly Generate and Separate Reflections. , 2019, , .		24
28	Robust Student Network Learning. IEEE Transactions on Neural Networks and Learning Systems, 2019, 31, 1-14.	7.2	22
29	Single Image Reflection Removal with Absorption Effect. , 2021, , .		22
30	Uncalibrated Photometric Stereo Under Natural Illumination. , 2018, , .		21
31	A^3-FKG: Attentive Attribute-Aware Fashion Knowledge Graph for Outfit Preference Prediction. IEEE Transactions on Multimedia, 2022, 24, 819-831.	5.2	21
32	What Is Learned in Deep Uncalibrated Photometric Stereo?. Lecture Notes in Computer Science, 2020, , 745-762.	1.0	20
33	Summary study of data-driven photometric stereo methods. Virtual Reality & Intelligent Hardware, 2020, 2, 213-221.	1.8	19
34	Beyond Dropout: Feature Map Distortion to Regularize Deep Neural Networks. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 5964-5971.	3.6	19
35	Self-Supervised Low-Light Image Enhancement Using Discrepant Untrained Network Priors. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 7332-7345.	5.6	18
36	Sparsity based reflection removal using external patch search. , 2017, , .		17

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37	Numerical Reflectance Compensation for Non-Lambertian Photometric Stereo. IEEE Transactions on Image Processing, 2019, 28, 3177-3191.	6.0	15
38	A Microfacet-Based Reflectance Model for Photometric Stereo with Highly Specular Surfaces. , 2017, , .		14
39	Reborn Filters: Pruning Convolutional Neural Networks with Limited Data. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 5972-5980.	3.6	14
40	Pose-Normalized and Appearance-Preserved Street-to-Shop Clothing Image Generation and Feature Learning. IEEE Transactions on Multimedia, 2021, 23, 133-144.	5.2	14
41	Reflection Scene Separation From a Single Image. , 2020, , .		13
42	Face Image Reflection Removal. International Journal of Computer Vision, 2021, 129, 385-399.	10.9	13
43	A Microfacet-Based Model for Photometric Stereo with General Isotropic Reflectance. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 48-61.	9.7	11
44	DeepShoe: An improved Multi-Task View-invariant CNN for street-to-shop shoe retrieval. Computer Vision and Image Understanding, 2019, 180, 23-33.	3.0	10
45	Deep Photometric Stereo Networks for Determining Surface Normal and Reflectances. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 114-128.	9.7	10
46	Photometric Stereo with Small Angular Variations. , 2015, , .		9
47	Normal Integration via Inverse Plane Fitting with Minimum Point-to-Plane Distance. , 2021, , .		9
48	Photometric stereo for general isotropic reflectances by spherical linear interpolation. Optical Engineering, 2015, 54, 083104.	0.5	8
49	Cross-Domain Shoe Retrieval With a Semantic Hierarchy of Attribute Classification Network. IEEE Transactions on Image Processing, 2017, 26, 5867-5881.	6.0	7
50	Stereoscopic Flash and No-Flash Photography for Shape and Albedo Recovery. , 2020, , .		7
51	What Does Plate Glass Reveal About Camera Calibration?. , 2020, , .		6
52	Panoramic Image Reflection Removal. , 2021, , .		6
53	A self-calibrated photo-geometric depth camera. Visual Computer, 2019, 35, 99-108.	2.5	5
54	Radiometric Calibration for Internet Photo Collections. , 2017, , .		4

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55	Ambiguity-Free Radiometric Calibration for Internet Photo Collections. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 1670-1684.	9.7	4
56	Street-to-shop shoe retrieval with multi-scale viewpoint invariant triplet network. , 2017, , .		3
57	Cross-domain shoe retrieval using a three-level deep feature representation. , 2017, , .		3
58	Fashion Recommendation on Street Images. , 2019, , .		3
59	Reconstructing Clear Image for High-Speed Motion Scene With a Retina-Inspired Spike Camera. IEEE Transactions on Computational Imaging, 2022, 8, 12-27.	2.6	3
60	Learning to remove reflections from windshield images. Signal Processing: Image Communication, 2019, 78, 94-102.	1.8	2
61	Smooth Deep Image Generator from Noises. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 3731-3738.	3.6	2
62	Multispectral Photometric Stereo for Spatially-Varying Spectral Reflectances: A well posed problem?. , 2021, , .		2
63	Self-Calibrating Polarising Radiometric Calibration. , 2018, , .		1
64	Spectral Representation via Data-Guided Sparsity for Hyperspectral Image Super-Resolution. Sensors, 2019, 19, 5401.	2.1	1
65	Recent Progress in Shape from Polarization. Advances in Computer Vision and Pattern Recognition, 2020, , 177-203.	0.9	0
66	Shape and Albedo Recovery by Your Phone using Stereoscopic Flash and No-Flash Photography. International Journal of Computer Vision, 0, , 1.	10.9	0