

Yasuyuki Matsushita

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

133
papers

3,919
citations

34
h-index

60
g-index

154
ext. papers

4,967
ext. citations

5
avg, IF

5.73
L-index

#	Paper	IF	Citations
133	Full-frame video stabilization with motion inpainting. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2006 , 28, 1150-63	13.3	315
132	Traffic monitoring and accident detection at intersections. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2000 , 1, 108-118	6.1	305
131	Motion detail preserving optical flow estimation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2012 , 34, 1744-57	13.3	274
130	GMS: Grid-Based Motion Statistics for Fast, Ultra-Robust Feature Correspondence 2017 ,		186
129	High-resolution hyperspectral imaging via matrix factorization 2011 ,		158
128	RotationNet: Joint Object Categorization and Pose Estimation Using Multiviews from Unsupervised Viewpoints 2018 ,		146
127	Learning-by-Synthesis for Appearance-Based 3D Gaze Estimation 2014 ,		145
126	Smoothly varying affine stitching 2011 ,		127
125	Appearance-based gaze estimation using visual saliency. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013 , 35, 329-41	13.3	104
124	Removing Non-Uniform Motion Blur from Images 2007 ,		86
123	A Holistic Approach to Cross-Channel Image Noise Modeling and Its Application to Image Denoising 2016 ,		84
122	Full-frame video stabilization		76
121	High-quality shape from multi-view stereo and shading under general illumination 2011 ,		74
120	Illumination normalization with time-dependent intrinsic images for video surveillance. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2004 , 26, 1336-47	13.3	72
119	Self-calibrating photometric stereo 2010 ,		71
118	Continuous 3D Label Stereo Matching Using Local Expansion Moves. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018 , 40, 2725-2739	13.3	70
117	Robust photometric stereo using sparse regression 2012 ,		66

116	Bi-Polynomial Modeling of Low-Frequency Reflectances. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2014 , 36, 1078-91	13.3	60
115	Robust Photometric Stereo via Low-Rank Matrix Completion and Recovery. <i>Lecture Notes in Computer Science</i> , 2011 , 703-717	0.9	59
114	2010 ,		55
113	Nonlinear camera response functions and image deblurring: theoretical analysis and practice. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013 , 35, 2498-512	13.3	53
112	Camera calibration with lens distortion from low-rank textures 2011 ,		52
111	Calibration-free gaze sensing using saliency maps 2010 ,		50
110	A hand-held photometric stereo camera for 3-D modeling 2009 ,		49
109	Motion detail preserving optical flow estimation 2010 ,		44
108	Deep Photometric Stereo Network 2017 ,		43
107	Graph Cut Based Continuous Stereo Matching Using Locally Shared Labels 2014 ,		42
106	Fast Randomized Singular Value Thresholding for Low-Rank Optimization. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018 , 40, 376-391	13.3	41
105	Uncalibrated Photometric Stereo for Unknown Isotropic Reflectances 2013 ,		40
104	An Incremental Learning Method for Unconstrained Gaze Estimation. <i>Lecture Notes in Computer Science</i> , 2008 , 656-667	0.9	39
103	2007 ,		39
102	Fast randomized Singular Value Thresholding for Nuclear Norm Minimization 2015 ,		37
101	Photometric Stereo Using Sparse Bayesian Regression for General Diffuse Surfaces. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2014 , 36, 1816-31	13.3	36
100	Radiometric calibration by rank minimization. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013 , 35, 144-56	13.3	35
99	Self-Calibrating Deep Photometric Stereo Networks 2019 ,		34

98	Appearance-Based Gaze Estimation With Online Calibration From Mouse Operations. <i>IEEE Transactions on Human-Machine Systems</i> , 2015 , 45, 750-760	4.1	33
97	Image retargeting using importance diffusion 2009 ,		27
96	Estimating Intrinsic Images from Image Sequences with Biased Illumination. <i>Lecture Notes in Computer Science</i> , 2004 , 274-286	0.9	27
95	Noise suppression in low-light images through joint denoising and demosaicing 2011 ,		26
94	Dynamic stills and clip trailers. <i>Visual Computer</i> , 2006 , 22, 642-652	2.3	25
93	Multiview Photometric Stereo Using Planar Mesh Parameterization 2013 ,		24
92	From Intensity Profile to Surface Normal: Photometric Stereo for Unknown Light Sources and Isotropic Reflectances. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015 , 37, 1999-2012 ^{13.3}		21
91	Recovering Transparent Shape from Time-of-Flight Distortion 2016 ,		20
90	Learning to Minify Photometric Stereo 2019 ,		19
89	Decorating surfaces with bidirectional texture functions. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2005 , 11, 519-28	4	18
88	Elevation Angle from Reflectance Monotonicity: Photometric Stereo for General Isotropic Reflectances. <i>Lecture Notes in Computer Science</i> , 2012 , 455-468	0.9	18
87	Descattering of transmissive observation using Parallel High-Frequency Illumination 2013 ,		17
86	Robust Multiview Photometric Stereo Using Planar Mesh Parameterization. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017 , 39, 1591-1604	13.3	17
85	Calibrating a Non-isotropic Near Point Light Source Using a Plane 2014 ,		16
84	A Probabilistic Intensity Similarity Measure based on Noise Distributions 2007 ,		16
83	Depth from Refraction Using a Transparent Medium with Unknown Pose and Refractive Index. <i>International Journal of Computer Vision</i> , 2013 , 102, 3-17	10.6	15
82	Material Classification Using Frequency-and Depth-Dependent Time-of-Flight Distortion 2017 ,		15
81	Graph-based joint clustering of fixations and visual entities. <i>ACM Transactions on Applied Perception</i> , 2013 , 10, 1-16	1.4	15

80	An Intensity Similarity Measure in Low-Light Conditions. <i>Lecture Notes in Computer Science</i> , 2006 , 267-280.9	15
79	Multiview Rectification of Folded Documents. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018 , 40, 505-511	13.3 14
78	Estimating camera response functions using probabilistic intensity similarity 2008 ,	14
77	Probabilistic Plant Modeling via Multi-view Image-to-Image Translation 2018 ,	14
76	Estimating demosaicing algorithms using image noise variance 2010 ,	13
75	2011 ,	13
74	Interactive Shadow Removal from a Single Image Using Hierarchical Graph Cut. <i>Lecture Notes in Computer Science</i> , 2010 , 234-245	0.9 13
73	Multi-task Learning Using Multi-modal Encoder-Decoder Networks with Shared Skip Connections 2017 ,	12
72	Efficient Large-Scale Point Cloud Registration Using Loop Closures 2015 ,	12
71	Predicting location semantics combining active and passive sensing with environment-independent classifier 2016 ,	12
70	Deep Photometric Stereo for Non-Lambertian Surfaces. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2022 , 44, 129-142	13.3 11
69	Shape from Single Scattering for Translucent Objects. <i>Lecture Notes in Computer Science</i> , 2012 , 371-384	0.9 11
68	Uncalibrated Photometric Stereo Under Natural Illumination 2018 ,	11
67	Photometric Stereo Using Internet Images 2014 ,	10
66	Semi-Calibrated Photometric Stereo. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020 , 42, 232-245	13.3 10
65	Device-free and privacy preserving indoor positioning using infrared retro-reflection imaging 2017 ,	9
64	Bayesian Depth-from-Defocus with Shading Constraints 2013 ,	9
63	An improved belief propagation method for dynamic collage. <i>Visual Computer</i> , 2009 , 25, 431-439	2.3 9

62	Photometric Stereo Under Non-uniform Light Intensities and Exposures. <i>Lecture Notes in Computer Science</i> , 2016 , 170-186	0.9	9
61	Photometric Stereo with Small Angular Variations 2015 ,		8
60	Recovering inner slices of translucent objects by multi-frequency illumination 2015 ,		8
59	Hemispherical Confocal Imaging Using Turtleback Reflector. <i>Lecture Notes in Computer Science</i> , 2011 , 336-349	0.9	8
58	Material Classification from Time-of-Flight Distortions. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2019 , 41, 2906-2918	13.3	8
57	RotationNet for Joint Object Categorization and Unsupervised Pose Estimation from Multi-View Images. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , 43, 269-283	13.3	8
56	Recovering Inner Slices of Layered Translucent Objects by Multi-Frequency Illumination. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017 , 39, 746-757	13.3	7
55	What Is Learned in Deep Uncalibrated Photometric Stereo?. <i>Lecture Notes in Computer Science</i> , 2020 , 745-762	0.9	7
54	Surface Normal Deconvolution: Photometric Stereo for Optically Thick Translucent Objects. <i>Lecture Notes in Computer Science</i> , 2014 , 346-359	0.9	7
53	Estimating Radiometric Response Functions from Image Noise Variance. <i>Lecture Notes in Computer Science</i> , 2008 , 623-637	0.9	7
52	Self-calibrating depth from refraction 2011 ,		6
51	Photometric Stereo in the Wild 2015 ,		5
50	Bayesian Depth-From-Defocus With Shading Constraints. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 589-600	8.7	5
49	Superdifferential cuts for binary energies 2015 ,		5
48	Interreflection Removal Using Fluorescence. <i>Lecture Notes in Computer Science</i> , 2014 , 203-217	0.9	5
47	Shape from Second-Bounce of Light Transport. <i>Lecture Notes in Computer Science</i> , 2010 , 280-293	0.9	5
46	Light Structure from Pin Motion: Geometric Point Light Source Calibration. <i>International Journal of Computer Vision</i> , 2020 , 128, 1889-1912	10.6	4
45	Deep Learning for Multimodal Data Fusion 2019 , 9-39		4

44	Camera spectral sensitivity estimation from a single image under unknown illumination by using fluorescence 2012 ,		4
43	Robust Simultaneous 3D Registration via Rank Minimization 2012 ,		4
42	Interactive video exploration using pose slices 2006 ,		4
41	Radiometric Calibration for Internet Photo Collections 2017 ,		3
40	Interactive Removal of Shadows from a Single Image Using Hierarchical Graph Cut. <i>IPSJ Transactions on Computer Vision and Applications</i> , 2010 , 2, 235-252	3-3	3
39	Normal Integration via Inverse Plane Fitting with Minimum Point-to-Plane Distance 2021 ,		3
38	Dimensionality Blessing: Clustering Images by Underlying Distribution 2018 ,		3
37	Numerical shape-from-shading revisited. <i>IPSJ Transactions on Computer Vision and Applications</i> , 2018 , 10,	3-3	3
36	Surface Reconstruction in Photometric Stereo with Calibration Error 2011 ,		2
35	Radiometric calibration using temporal irradiance mixtures 2008 ,		2
34	Light Structure from Pin Motion: Simple and Accurate Point Light Calibration for Physics-Based Modeling. <i>Lecture Notes in Computer Science</i> , 2018 , 3-19	0.9	2
33	Deep Near-Light Photometric Stereo for Spatially Varying Reflectances. <i>Lecture Notes in Computer Science</i> , 2020 , 137-152	0.9	2
32	Reducing the amount of out-of-core data access for GPU-accelerated randomized SVD. <i>Concurrency Computation Practice and Experience</i> , 2020 , 32, e5754	1.4	1
31	Deep Photometric Stereo Networks for Determining Surface Normal and Reflectances. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2022 , 44, 114-128	13.3	1
30	Metric structure from motion by indoor localization using Wi-Fi channel state information 2017 ,		1
29	Efficient Multiview Stereo by Random-Search and Propagation 2014 ,		1
28	Aligning images in the wild 2012 ,		1
27	Hemispherical Confocal Imaging. <i>IPSJ Transactions on Computer Vision and Applications</i> , 2011 , 3, 222-235	3.3	1

26	LIGHTING AND SHADOW INTERPOLATION USING INTRINSIC LUMIGRAPHS. <i>International Journal of Image and Graphics</i> , 2004 , 04, 585-604	0.5	1
25	An occlusion-robust tracking algorithm based on a spatiotemporal Markov random field model. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 2003 , 86, 73-86		1
24	Multispectral Photometric Stereo for Spatially-Varying Spectral Reflectances: A well posed problem? 2021 ,		1
23	Statistical Analysis of Global Motion Chains. <i>Lecture Notes in Computer Science</i> , 2008 , 692-705	0.9	1
22	Photometric Stereo via Discrete Hypothesis-and-Test Search 2020 ,		1
21	Stereoscopic Flash and No-Flash Photography for Shape and Albedo Recovery 2020 ,		1
20	Decomposition of reflection and scattering by multiple-weighted measurements. <i>IPSJ Transactions on Computer Vision and Applications</i> , 2018 , 10,	3.3	1
19	Ambiguity-Free Radiometric Calibration for Internet Photo Collections. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020 , 42, 1670-1684	13.3	0
18	Descriptor-Free Multi-view Region Matching for Instance-Wise 3D Reconstruction. <i>Lecture Notes in Computer Science</i> , 2021 , 581-599	0.9	0
17	Eliminating Temporal Illumination Variations in Whisk-broom Hyperspectral Imaging. <i>International Journal of Computer Vision</i> ,1	10.6	0
16	Photometric Stereo. <i>Advances in Computer Vision and Pattern Recognition</i> , 2020 , 107-123	1.1	
15	Visualization/AR/VR/MR Systems. <i>Advances in Computer Vision and Pattern Recognition</i> , 2020 , 213-239	1.1	
14	Structured Light. <i>Advances in Computer Vision and Pattern Recognition</i> , 2020 , 125-155	1.1	
13	An Analysis of Sketched IRLS for Accelerated Sparse Residual Regression. <i>Lecture Notes in Computer Science</i> , 2020 , 609-626	0.9	
12	Robot Vision, Autonomous Vehicles, and Human Robot Interaction. <i>Advances in Computer Vision and Pattern Recognition</i> , 2020 , 289-303	1.1	
11	Shape-Conditioned Image Generation by Learning Latent Appearance Representation from Unpaired Data. <i>Lecture Notes in Computer Science</i> , 2019 , 438-453	0.9	
10	Other Shape Reconstruction Techniques. <i>Advances in Computer Vision and Pattern Recognition</i> , 2020 , 157-181	1.1	
9	Block Randomized Singular Value Decomposition on GPUs. <i>IEICE Transactions on Information and Systems</i> , 2020 , E103.D, 1949-1959	0.6	

8	Photometric Estimation. <i>Advances in Computer Vision and Pattern Recognition</i> , 2020 , 183-209	1.1
7	Photometry. <i>Advances in Computer Vision and Pattern Recognition</i> , 2020 , 3-29	1.1
6	E-Heritage. <i>Advances in Computer Vision and Pattern Recognition</i> , 2020 , 263-287	1.1
5	Biomedical Application. <i>Advances in Computer Vision and Pattern Recognition</i> , 2020 , 241-262	1.1
4	Light Source. <i>Advances in Computer Vision and Pattern Recognition</i> , 2020 , 89-103	1.1
3	Sensor. <i>Advances in Computer Vision and Pattern Recognition</i> , 2020 , 63-87	1.1
2	Fast General Norm Approximation via Iteratively Reweighted Least Squares. <i>Lecture Notes in Computer Science</i> , 2017 , 207-221	0.9
1	Shape and Albedo Recovery by Your Phone using Stereoscopic Flash and No-Flash Photography. <i>International Journal of Computer Vision</i> , 1	10.6