

# Yasuyuki Matsushita

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/3322419/yasuyuki-matsushita-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Deep Photometric Stereo Networks for Determining Surface Normal and Reflectances. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2022</b> , 44, 114-128	13.3	1
132	Deep Photometric Stereo for Non-Lambertian Surfaces. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2022</b> , 44, 129-142	13.3	11
131	Multispectral Photometric Stereo for Spatially-Varying Spectral Reflectances: A well posed problem? <b>2021</b> ,		1
130	Normal Integration via Inverse Plane Fitting with Minimum Point-to-Plane Distance <b>2021</b> ,		3
129	RotationNet for Joint Object Categorization and Unsupervised Pose Estimation from Multi-View Images. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2021</b> , 43, 269-283	13.3	8
128	Descriptor-Free Multi-view Region Matching for Instance-Wise 3D Reconstruction. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 581-599	0.9	0
127	Reducing the amount of out-of-core data access for GPU-accelerated randomized SVD. <i>Concurrency Computation Practice and Experience</i> , <b>2020</b> , 32, e5754	1.4	1
126	Light Structure from Pin Motion: Geometric Point Light Source Calibration. <i>International Journal of Computer Vision</i> , <b>2020</b> , 128, 1889-1912	10.6	4
125	What Is Learned in Deep Uncalibrated Photometric Stereo?. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 745-762	0.9	7
124	Photometric Stereo. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 107-123	1.1	
123	Visualization/AR/VR/MR Systems. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 213-239	1.1	
122	Structured Light. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 125-155	1.1	
121	An Analysis of Sketched IRLS for Accelerated Sparse Residual Regression. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 609-626	0.9	
120	Robot Vision, Autonomous Vehicles, and Human Robot Interaction. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 289-303	1.1	
119	Other Shape Reconstruction Techniques. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 157-181	1.1	
118	Block Randomized Singular Value Decomposition on GPUs. <i>IEICE Transactions on Information and Systems</i> , <b>2020</b> , E103.D, 1949-1959	0.6	
117	Photometric Estimation. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 183-209	1.1	

116	Deep Near-Light Photometric Stereo for Spatially Varying Reflectances. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 137-152	0.9	2
115	Photometry. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 3-29	1.1	
114	E-Heritage. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 263-287	1.1	
113	Biomedical Application. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 241-262	1.1	
112	Light Source. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 89-103	1.1	
111	Sensor. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 63-87	1.1	
110	Photometric Stereo via Discrete Hypothesis-and-Test Search <b>2020</b> ,		1
109	Stereoscopic Flash and No-Flash Photography for Shape and Albedo Recovery <b>2020</b> ,		1
108	Semi-Calibrated Photometric Stereo. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2020</b> , 42, 232-245	13.3	10
107	Ambiguity-Free Radiometric Calibration for Internet Photo Collections. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2020</b> , 42, 1670-1684	13.3	0
106	Deep Learning for Multimodal Data Fusion <b>2019</b> , 9-39		4
105	Shape-Conditioned Image Generation by Learning Latent Appearance Representation from Unpaired Data. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 438-453	0.9	
104	Learning to Minify Photometric Stereo <b>2019</b> ,		19
103	Self-Calibrating Deep Photometric Stereo Networks <b>2019</b> ,		34
102	Material Classification from Time-of-Flight Distortions. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2019</b> , 41, 2906-2918	13.3	8
101	Multiview Rectification of Folded Documents. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2018</b> , 40, 505-511	13.3	14
100	Fast Randomized Singular Value Thresholding for Low-Rank Optimization. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2018</b> , 40, 376-391	13.3	41
99	Light Structure from Pin Motion: Simple and Accurate Point Light Calibration for Physics-Based Modeling. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 3-19	0.9	2

98	Continuous 3D Label Stereo Matching Using Local Expansion Moves. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2018</b> , 40, 2725-2739	13.3	70
97	RotationNet: Joint Object Categorization and Pose Estimation Using Multiviews from Unsupervised Viewpoints <b>2018</b> ,		146
96	Uncalibrated Photometric Stereo Under Natural Illumination <b>2018</b> ,		11
95	Dimensionality Blessing: Clustering Images by Underlying Distribution <b>2018</b> ,		3
94	Numerical shape-from-shading revisited. <i>IPSJ Transactions on Computer Vision and Applications</i> , <b>2018</b> , 10,	3.3	3
93	Decomposition of reflection and scattering by multiple-weighted measurements. <i>IPSJ Transactions on Computer Vision and Applications</i> , <b>2018</b> , 10,	3.3	1
92	Probabilistic Plant Modeling via Multi-view Image-to-Image Translation <b>2018</b> ,		14
91	Recovering Inner Slices of Layered Translucent Objects by Multi-Frequency Illumination. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2017</b> , 39, 746-757	13.3	7
90	Device-free and privacy preserving indoor positioning using infrared retro-reflection imaging <b>2017</b> ,		9
89	Robust Multiview Photometric Stereo Using Planar Mesh Parameterization. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2017</b> , 39, 1591-1604	13.3	17
88	Metric structure from motion by indoor localization using Wi-Fi channel state information <b>2017</b> ,		1
87	Radiometric Calibration for Internet Photo Collections <b>2017</b> ,		3
86	Material Classification Using Frequency-and Depth-Dependent Time-of-Flight Distortion <b>2017</b> ,		15
85	GMS: Grid-Based Motion Statistics for Fast, Ultra-Robust Feature Correspondence <b>2017</b> ,		186
84	Multi-task Learning Using Multi-modal Encoder-Decoder Networks with Shared Skip Connections <b>2017</b> ,		12
83	Deep Photometric Stereo Network <b>2017</b> ,		43
82	Fast General Norm Approximation via Iteratively Reweighted Least Squares. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 207-221	0.9	
81	Recovering Transparent Shape from Time-of-Flight Distortion <b>2016</b> ,		20

80	Bayesian Depth-From-Defocus With Shading Constraints. <i>IEEE Transactions on Image Processing</i> , <b>2016</b> , 25, 589-600	8.7	5
79	A Holistic Approach to Cross-Channel Image Noise Modeling and Its Application to Image Denoising <b>2016</b> ,		84
78	Predicting location semantics combining active and passive sensing with environment-independent classifier <b>2016</b> ,		12
77	Photometric Stereo Under Non-uniform Light Intensities and Exposures. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 170-186	0.9	9
76	Photometric Stereo in the Wild <b>2015</b> ,		5
75	Photometric Stereo with Small Angular Variations <b>2015</b> ,		8
74	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> , <b>2015</b> , 37, 1999-2012	13.3	21
73	Superdifferential cuts for binary energies <b>2015</b> ,		5
72	Recovering inner slices of translucent objects by multi-frequency illumination <b>2015</b> ,		8
71	Efficient Large-Scale Point Cloud Registration Using Loop Closures <b>2015</b> ,		12
70	Appearance-Based Gaze Estimation With Online Calibration From Mouse Operations. <i>IEEE Transactions on Human-Machine Systems</i> , <b>2015</b> , 45, 750-760	4.1	33
69	Fast randomized Singular Value Thresholding for Nuclear Norm Minimization <b>2015</b> ,		37
68	Graph Cut Based Continuous Stereo Matching Using Locally Shared Labels <b>2014</b> ,		42
67	Photometric Stereo Using Sparse Bayesian Regression for General Diffuse Surfaces. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2014</b> , 36, 1816-31	13.3	36
66	Bi-Polynomial Modeling of Low-Frequency Reflectances. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2014</b> , 36, 1078-91	13.3	60
65	Photometric Stereo Using Internet Images <b>2014</b> ,		10
64	Efficient Multiview Stereo by Random-Search and Propagation <b>2014</b> ,		1
63	Calibrating a Non-isotropic Near Point Light Source Using a Plane <b>2014</b> ,		16

62	Learning-by-Synthesis for Appearance-Based 3D Gaze Estimation <b>2014</b> ,		145
61	Interreflection Removal Using Fluorescence. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 203-217	0.9	5
60	Surface Normal Deconvolution: Photometric Stereo for Optically Thick Translucent Objects. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 346-359	0.9	7
59	Depth from Refraction Using a Transparent Medium with Unknown Pose and Refractive Index. <i>International Journal of Computer Vision</i> , <b>2013</b> , 102, 3-17	10.6	15
58	Nonlinear camera response functions and image deblurring: theoretical analysis and practice. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2013</b> , 35, 2498-512	13.3	53
57	Bayesian Depth-from-Defocus with Shading Constraints <b>2013</b> ,		9
56	Descattering of transmissive observation using Parallel High-Frequency Illumination <b>2013</b> ,		17
55	Radiometric calibration by rank minimization. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2013</b> , 35, 144-56	13.3	35
54	Graph-based joint clustering of fixations and visual entities. <i>ACM Transactions on Applied Perception</i> , <b>2013</b> , 10, 1-16	1.4	15
53	Multiview Photometric Stereo Using Planar Mesh Parameterization <b>2013</b> ,		24
52	Appearance-based gaze estimation using visual saliency. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2013</b> , 35, 329-41	13.3	104
51	Uncalibrated Photometric Stereo for Unknown Isotropic Reflectances <b>2013</b> ,		40
50	Motion detail preserving optical flow estimation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2012</b> , 34, 1744-57	13.3	274
49	Camera spectral sensitivity estimation from a single image under unknown illumination by using fluorescence <b>2012</b> ,		4
48	Aligning images in the wild <b>2012</b> ,		1
47	Robust photometric stereo using sparse regression <b>2012</b> ,		66
46	Robust Simultaneous 3D Registration via Rank Minimization <b>2012</b> ,		4
45	Shape from Single Scattering for Translucent Objects. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 371-384	0.9	11

44	Elevation Angle from Reflectance Monotonicity: Photometric Stereo for General Isotropic Reflectances. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 455-468	0.9	18
43	High-resolution hyperspectral imaging via matrix factorization <b>2011</b> ,		158
42	Surface Reconstruction in Photometric Stereo with Calibration Error <b>2011</b> ,		2
41	Smoothly varying affine stitching <b>2011</b> ,		127
40	Hemispherical Confocal Imaging. <i>IP SJ Transactions on Computer Vision and Applications</i> , <b>2011</b> , 3, 222-235 <sub>3,3</sub>		1
39	High-quality shape from multi-view stereo and shading under general illumination <b>2011</b> ,		74
38	Self-calibrating depth from refraction <b>2011</b> ,		6
37	Noise suppression in low-light images through joint denoising and demosaicing <b>2011</b> ,		26
36	Camera calibration with lens distortion from low-rank textures <b>2011</b> ,		52
35	<b>2011</b> ,		13
34	Hemispherical Confocal Imaging Using Turtleback Reflector. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 336-349	0.9	8
33	Robust Photometric Stereo via Low-Rank Matrix Completion and Recovery. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 703-717	0.9	59
32	Motion detail preserving optical flow estimation <b>2010</b> ,		44
31	Self-calibrating photometric stereo <b>2010</b> ,		71
30	Calibration-free gaze sensing using saliency maps <b>2010</b> ,		50
29	Estimating demosaicing algorithms using image noise variance <b>2010</b> ,		13
28	<b>2010</b> ,		55
27	Interactive Removal of Shadows from a Single Image Using Hierarchical Graph Cut. <i>IP SJ Transactions on Computer Vision and Applications</i> , <b>2010</b> , 2, 235-252	3.3	3

26	Interactive Shadow Removal from a Single Image Using Hierarchical Graph Cut. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 234-245	0.9	13
25	Shape from Second-Bounce of Light Transport. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 280-293	0.9	5
24	Image retargeting using importance diffusion <b>2009</b> ,		27
23	An improved belief propagation method for dynamic collage. <i>Visual Computer</i> , <b>2009</b> , 25, 431-439	2.3	9
22	A hand-held photometric stereo camera for 3-D modeling <b>2009</b> ,		49
21	Radiometric calibration using temporal irradiance mixtures <b>2008</b> ,		2
20	An Incremental Learning Method for Unconstrained Gaze Estimation. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 656-667	0.9	39
19	Estimating camera response functions using probabilistic intensity similarity <b>2008</b> ,		14
18	Statistical Analysis of Global Motion Chains. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 692-705	0.9	1
17	Estimating Radiometric Response Functions from Image Noise Variance. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 623-637	0.9	7
16	<b>2007</b> ,		39
15	Removing Non-Uniform Motion Blur from Images <b>2007</b> ,		86
14	A Probabilistic Intensity Similarity Measure based on Noise Distributions <b>2007</b> ,		16
13	Interactive video exploration using pose slices <b>2006</b> ,		4
12	Full-frame video stabilization with motion inpainting. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2006</b> , 28, 1150-63	13.3	315
11	Dynamic stills and clip trailers. <i>Visual Computer</i> , <b>2006</b> , 22, 642-652	2.3	25
10	An Intensity Similarity Measure in Low-Light Conditions. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 267-280.	0.9	15
9	Decorating surfaces with bidirectional texture functions. <i>IEEE Transactions on Visualization and Computer Graphics</i> , <b>2005</b> , 11, 519-28	4	18



8	LIGHTING AND SHADOW INTERPOLATION USING INTRINSIC LUMIGRAPHS. <i>International Journal of Image and Graphics</i> , <b>2004</b> , 04, 585-604	0.5	1
7	Illumination normalization with time-dependent intrinsic images for video surveillance. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2004</b> , 26, 1336-47	13.3	72
6	Estimating Intrinsic Images from Image Sequences with Biased Illumination. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 274-286	0.9	27
5	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> , <b>2003</b> , 86, 73-86		1
4	Traffic monitoring and accident detection at intersections. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2000</b> , 1, 108-118	6.1	305
3	Full-frame video stabilization		76
2	Eliminating Temporal Illumination Variations in Whisk-broom Hyperspectral Imaging. <i>International Journal of Computer Vision</i> , 1	10.6	0
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	