

# Ryusuke Sagawa

## List of Publications by Year in Descending Order

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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.

57  
papers

571  
citations

11  
h-index

23  
g-index

62  
ext. papers

668  
ext. citations

1.8  
avg. IF

3.36  
L-index

#	Paper	IF	Citations
57	Single-shot dense active stereo with pixel-wise phase estimation based on grid-structure using CNN and correspondence estimation using GCN <b>2022</b> ,		1
56	GCN-Calculated Graph-Feature Embedding for 3D Endoscopic System Based on Active Stereo. <i>Communications in Computer and Information Science</i> , <b>2021</b> , 253-266	0.3	1
55	Challenges on Active 3D Scan for Ultra-Fast Motion, Micro Scale and Extreme Environment. <i>Journal of the Japan Society for Precision Engineering</i> , <b>2021</b> , 87, 656-661	0.1	
54	Dense Pixel-Wise Micro-motion Estimation of Object Surface by Using Low Dimensional Embedding of Laser Speckle Pattern. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 700-715	0.9	
53	Photometric Stereo. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 107-123	1.1	
52	Visualization/AR/VR/MR Systems. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 213-239	1.1	
51	Structured Light. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 125-155	1.1	
50	Robot Vision, Autonomous Vehicles, and Human Robot Interaction. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 289-303	1.1	
49	Other Shape Reconstruction Techniques. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 157-181	1.1	
48	Photometric Estimation. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 183-209	1.1	
47	Photometry. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 3-29	1.1	
46	E-Heritage. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 263-287	1.1	
45	Biomedical Application. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 241-262	1.1	
44	Light Source. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 89-103	1.1	
43	Sensor. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> , 63-87	1.1	
42	Fully Auto-calibrated Active-stereo-based 3D Endoscopic System using Correspondence Estimation with Graph Convolutional Network. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2020</b> , 2020, 4357-4360	0.9	8
41	Active Lighting and Its Application for Computer Vision. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2020</b> ,	1.1	2

40	Predicting Muscle Activity and Joint Angle from Skin Shape. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 488-502	0.9	
39	Calibration Technique for Underwater Active Oneshot Scanning System with Static Pattern Projector and Multiple Cameras <b>2017</b> ,		2
38	Illuminant-Camera Communication to Observe Moving Objects under Strong External Light by Spread Spectrum Modulation <b>2017</b> ,		6
37	3D endoscope system using DOE projector. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 2091-2094	0.9	13
36	A Triangle Mesh Reconstruction Method Taking into Account Silhouette Images. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 582-593	0.9	
35	Analyzing Muscle Activity and Force with Skin Shape Captured by Non-contact Visual Sensor. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 488-501	0.9	1
34	Automatic feature extraction using CNN for robust active one-shot scanning <b>2016</b> ,		1
33	Underwater Active Oneshot Scan with Static Wave Pattern and Bundle Adjustment. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 404-418	0.9	0
32	Entire shape scan system with multiple pro-cams using texture information and accurate silhouette creating technique <b>2015</b> ,		1
31	Visibility reduction based performance evaluation of vision-based safety sensors <b>2015</b> ,		1
30	2-DOF auto-calibration for a 3D endoscope system based on active stereo. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 7937-41	0.9	12
29	Phase Estimation of a Single Quasi-Periodic Signal. <i>IEEE Transactions on Signal Processing</i> , <b>2014</b> , 62, 2066-2079	0.9	8
28	Calibration of a 3D endoscopic system based on active stereo method for shape measurement of biological tissues and specimen. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 4991-4	0.9	12
27	4D Capture Using Visibility Information of Multiple Projector Camera System <b>2014</b> ,		1
26	Temporal Octrees for Compressing Dynamic Point Cloud Streams <b>2014</b> ,		3
25	Dense 3D Reconstruction from High Frame-Rate Video Using a Static Grid Pattern. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2014</b> , 36, 1733-47	13.3	21
24	Symmetry-Aware Nonrigid Matching of Incomplete 3D Surfaces <b>2014</b> ,		9
23	Robust and Accurate One-Shot 3D Reconstruction by 2C1P System with Wave Grid Pattern <b>2013</b> ,		5

22	One-Shot Entire Shape Scanning by Utilizing Multiple Projector-Camera Constraints of Grid Patterns <b>2013</b> ,		6
21	Single colour one-shot scan using modified Penrose tiling pattern. <i>IET Computer Vision</i> , <b>2013</b> , 7, 293-301	1.4	6
20	Proposal on 3-D endoscope by using grid-based active stereo. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 5694-7	0.9	6
19	Noncontact measurement of cardiac beat by using active stereo with waved-grid pattern projection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 1756-9	0.9	3
18	Extraction and Visualization of Cardiac Beat by Grid-Based Active Stereo. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 146-157	0.9	3
17	Marker-less Facial Motion Capture based on the Recognition of the Parts. <i>Journal of the Japan Society for Precision Engineering</i> , <b>2013</b> , 79, 1152-1158	0.1	
16	Efficient rate-distortion compression of dynamic point cloud for grid-pattern-based 3D scanning systems. <i>3D Research</i> , <b>2012</b> , 3, 1	2.4	6
15	Basic study on non-contact measurement of cardiac beat by using grid-based active stereo. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 2036-9	0.9	1
14	Grid-Based Active Stereo with Single-Colored Wave Pattern for Dense One-shot 3D Scan <b>2012</b> ,		38
13	Entire Shape Acquisition Technique Using Multiple Projectors and Cameras with Parallel Pattern Projection. <i>IPSJ Transactions on Computer Vision and Applications</i> , <b>2012</b> , 4, 40-52	3.3	6
12	Single Color One-Shot Scan Using Topology Information. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 486-495	0.9	1
11	<b>2011</b> ,		5
10	Dense one-shot 3D reconstruction by detecting continuous regions with parallel line projection <b>2011</b> ,		30
9	Phase Registration of a Single Quasi-Periodic Signal Using Self Dynamic Time Warping. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 667-678	0.9	9
8	Dynamic Compression of Curve-Based Point Cloud. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 323-334	0.9	0
7	One-shot Entire Shape Acquisition Method Using Multiple Projectors and Cameras <b>2010</b> ,		17
6	<b>2009</b> ,		57
5	Shape from Grid Pattern Based on Coplanarity Constraints for One-shot Scanning. <i>IPSJ Transactions on Computer Vision and Applications</i> , <b>2009</b> , 1, 139-157	3.3	6

4	Hole filling of a 3D model by flipping signs of a signed distance field in adaptive resolution. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2008</b> , 30, 686-99	13.3	21
3	The Great Buddha Project: Digitally Archiving, Restoring, and Analyzing Cultural Heritage Objects. <i>International Journal of Computer Vision</i> , <b>2007</b> , 75, 189-208	10.6	73
2	Gait Recognition Using a View Transformation Model in the Frequency Domain. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 151-163	0.9	169
1	Simultaneous estimation of projector and camera poses for multiple oneshot scan using pixel-wise correspondences estimated by U-Nets and GCN. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 1-9	0.9	