

# In So Kweon

## List of Publications by Year in Descending Order

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**Version:** 2024-04-26

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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.

149  
papers

5,171  
citations

25  
h-index

69  
g-index

185  
ext. papers

8,052  
ext. citations

5  
avg, IF

6.42  
L-index

#	Paper	IF	Citations
149	Real-Time Multi-Car Localization and See-Through System. <i>International Journal of Computer Vision</i> , <b>2022</b> , 130, 384	10.6	0
148	Learning Open-World Object Proposals without Learning to Classify. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 1-1	4.2	8
147	MC-Calib: A generic and robust calibration toolbox for multi-camera systems. <i>Computer Vision and Image Understanding</i> , <b>2022</b> , 217, 103353	4.3	1
146	Self-Supervised Depth and Ego-Motion Estimation for Monocular Thermal Video Using Multi-Spectral Consistency Loss. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 7, 1103-1110	4.2	1
145	MCDAL: Maximum Classifier Discrepancy for Active Learning.. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2022</b> , PP,	10.3	4
144	Adaptive Cost Volume Fusion Network for Multi-Modal Depth Estimation in Changing Environments. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 7, 5095-5102	4.2	0
143	Online Misalignment Estimation of Strapdown Navigation for Land Vehicle under Dynamic Condition. <i>International Journal of Automotive Technology</i> , <b>2021</b> , 22, 1723-1733	1.6	4
142	Stereo Object Matching Network <b>2021</b> ,		1
141	Lane Detection Aided Online Dead Reckoning for GNSS Denied Environments. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
140	Dealing with Missing Modalities in the Visual Question Answer-Difference Prediction Task through Knowledge Distillation <b>2021</b> ,		2
139	Linear RGB-D SLAM for Structured Environments. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2021</b> , PP,	13.3	2
138	ACP++: Action Co-Occurrence Priors for Human-Object Interaction Detection. <i>IEEE Transactions on Image Processing</i> , <b>2021</b> , 30, 9150-9163	8.7	3
137	Volumetric Propagation Network: Stereo-LiDAR Fusion for Long-Range Depth Estimation. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 4672-4679	4.2	7
136	Category-Level Metric Scale Object Shape and Pose Estimation. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 8575-8582	4.2	4
135	MS-UDA: Multi-Spectral Unsupervised Domain Adaptation for Thermal Image Semantic Segmentation. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 6497-6504	4.2	7
134	Salient View Selection for Visual Recognition of Industrial Components. <i>IEEE Robotics and Automation Letters</i> , <b>2020</b> , 5, 2506-2513	4.2	
133	Detecting Human-Object Interactions with Action Co-occurrence Priors. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 718-736	0.9	15

132	Non-local Spatial Propagation Network for Depth Completion. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 120-136	0.9	36
131	A Simple and Light-Weight Attention Module for Convolutional Neural Networks. <i>International Journal of Computer Vision</i> , <b>2020</b> , 128, 783-798	10.6	18
130	Unsupervised Intra-Domain Adaptation for Semantic Segmentation Through Self-Supervision <b>2020</b> ,		75
129	Robust Reference-Based Super-Resolution With Similarity-Aware Deformable Convolution <b>2020</b> ,		15
128	Globally Optimal Inlier Set Maximization for Atlanta World Understanding. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2020</b> , 42, 2656-2669	13.3	7
127	Category-specific upright orientation estimation for 3D model classification and retrieval. <i>Image and Vision Computing</i> , <b>2020</b> , 96, 103900	3.7	2
126	Discriminative Feature Learning for Unsupervised Video Summarization. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2019</b> , 33, 8537-8544	5	25
125	Depth Completion with Deep Geometry and Context Guidance <b>2019</b> ,		17
124	Probabilistic moving least squares with spatial constraints for nonlinear color transfer between images. <i>Computer Vision and Image Understanding</i> , <b>2019</b> , 180, 1-12	4.3	5
123	Gated bidirectional feature pyramid network for accurate one-shot detection. <i>Machine Vision and Applications</i> , <b>2019</b> , 30, 543-555	2.8	10
122	One-Day Outdoor Photometric Stereo Using Skylight Estimation. <i>International Journal of Computer Vision</i> , <b>2019</b> , 127, 1126-1142	10.6	1
121	Gradient-Based Camera Exposure Control for Outdoor Mobile Platforms. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2019</b> , 29, 1569-1583	6.4	11
120	Image Captioning with Very Scarce Supervised Data: Adversarial Semi-Supervised Learning Approach <b>2019</b> ,		8
119	Self-Supervised Video Representation Learning with Space-Time Cubic Puzzles. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2019</b> , 33, 8545-8552	5	82
118	Fast Perception, Planning, and Execution for a Robotic Butler: Wheeled Humanoid M-Hubo <b>2019</b> ,		7
117	Vehicular Multi-Camera Sensor System for Automated Visual Inspection of Electric Power Distribution Equipment <b>2019</b> ,		1
116	Learning Residual Flow as Dynamic Motion from Stereo Videos <b>2019</b> ,		5
115	DISC: A Large-scale Virtual Dataset for Simulating Disaster Scenarios <b>2019</b> ,		4

114	Camera Exposure Control for Robust Robot Vision with Noise-Aware Image Quality Assessment <b>2019</b> ,		5
113	Dense Relational Captioning: Triple-Stream Networks for Relationship-Based Captioning <b>2019</b> ,		20
112	Variational Prototyping-Encoder: One-Shot Learning With Prototypical Images <b>2019</b> ,		16
111	Robust and Globally Optimal Manhattan Frame Estimation in Near Real Time. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2019</b> , 41, 682-696	13.3	13
110	RANUS: RGB and NIR Urban Scene Dataset for Deep Scene Parsing. <i>IEEE Robotics and Automation Letters</i> , <b>2018</b> , 3, 1808-1815	4.2	21
109	Efficient adaptive non-maximal suppression algorithms for homogeneous spatial keypoint distribution. <i>Pattern Recognition Letters</i> , <b>2018</b> , 106, 53-60	4.7	13
108	Real-time head pose estimation using multi-task deep neural network. <i>Robotics and Autonomous Systems</i> , <b>2018</b> , 103, 1-12	3.5	36
107	On-Line Initialization and Extrinsic Calibration of an Inertial Navigation System With a Relative Preintegration Method on Manifold. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2018</b> , 15, 1272-1285	4.9	11
106	KAIST Multi-Spectral Day/Night Data Set for Autonomous and Assisted Driving. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2018</b> , 19, 934-948	6.1	88
105	A Closed-Form Solution to Rotation Estimation for Structure from Small Motion. <i>IEEE Signal Processing Letters</i> , <b>2018</b> , 25, 393-397	3.2	5
104	CBAM: Convolutional Block Attention Module. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 3-19	0.9	1980
103	Disjoint Multi-task Learning Between Heterogeneous Human-Centric Tasks <b>2018</b> ,		7
102	Globally Optimal Inlier Set Maximization for Atlanta Frame Estimation <b>2018</b> ,		10
101	StairNet: Top-Down Semantic Aggregation for Accurate One Shot Detection <b>2018</b> ,		30
100	Refining Geometry from Depth Sensors using IR Shading Images. <i>International Journal of Computer Vision</i> , <b>2017</b> , 122, 1-16	10.6	15
99	Light-Field Image Super-Resolution Using Convolutional Neural Network. <i>IEEE Signal Processing Letters</i> , <b>2017</b> , 24, 848-852	3.2	88
98	3D Display Calibration by Visual Pattern Analysis. <i>IEEE Transactions on Image Processing</i> , <b>2017</b> , 26, 2090-2102	2.1	7
97	Multi-Image Deblurring Using Complementary Sets of Fluttering Patterns. <i>IEEE Transactions on Image Processing</i> , <b>2017</b> , 26, 2311-2326	8.7	9

96	Category-Specific Salient View Selection via Deep Convolutional Neural Networks. <i>Computer Graphics Forum</i> , <b>2017</b> , 36, 313-328	2.4	6
95	Generating Fluttering Patterns with Low Autocorrelation for Coded Exposure Imaging. <i>International Journal of Computer Vision</i> , <b>2017</b> , 123, 269-286	10.6	7
94	Deep representation of industrial components using simulated images <b>2017</b> ,		3
93	A Unified Approach of Multi-scale Deep and Hand-Crafted Features for Defocus Estimation <b>2017</b> ,		46
92	Geometry Guided Three-Dimensional Propagation for Depth From Small Motion. <i>IEEE Signal Processing Letters</i> , <b>2017</b> , 24, 1857-1861	3.2	4
91	Fast and robust binary descriptor using intensity rank binning. <i>Electronics Letters</i> , <b>2017</b> , 53, 79-81	1.1	
90	Noise Robust Depth from Focus Using a Ring Difference Filter <b>2017</b> ,		11
89	<b>2017</b> ,		24
88	VPGNet: Vanishing Point Guided Network for Lane and Road Marking Detection and Recognition <b>2017</b> ,		136
87	Local deformation calibration for autostereoscopic 3D display. <i>Optics Express</i> , <b>2017</b> , 25, 10801-10814	3.3	7
86	Structure-From-Motion in 3D Space Using 2D Lidars. <i>Sensors</i> , <b>2017</b> , 17,	3.8	9
85	Multi-Scale, Multi-Object and Real-Time Face Detection and Head Pose Estimation Using Deep Neural Networks. <i>The Journal of Korea Robotics Society</i> , <b>2017</b> , 12, 313-321	0.3	1
84	Generating Fluttering Patterns with Low Autocorrelation for Coded Exposure Imaging <b>2017</b> , 123, 269		1
83	2D-3D Pose Estimation using Multi-view Object Co-segmentation. <i>The Journal of Korea Robotics Society</i> , <b>2017</b> , 12, 33-41	0.3	
82	A Real-Time Augmented Reality System to See-Through Cars. <i>IEEE Transactions on Visualization and Computer Graphics</i> , <b>2016</b> , 22, 2395-404	4	41
81	All-Around Depth from Small Motion with a Spherical Panoramic Camera. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 156-172	0.9	29
80	Fast multiple objects detection and tracking fusing color camera and 3D LIDAR for intelligent vehicles <b>2016</b> ,		19
79	Globally Optimal Manhattan Frame Estimation in Real-Time <b>2016</b> ,		14

78	Ambiguous Surface Defect Image Classification of AMOLED Displays in Smartphones. <i>IEEE Transactions on Industrial Informatics</i> , <b>2016</b> , 12, 597-607	11.9	43
77	Automated checkerboard detection and indexing using circular boundaries. <i>Pattern Recognition Letters</i> , <b>2016</b> , 71, 66-72	4.7	24
76	6-DOF Direct Homography Tracking with Extended Kalman Filter. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 447-460	0.9	3
75	Extrinsic calibration of a camera and a 2D laser without overlap. <i>Robotics and Autonomous Systems</i> , <b>2016</b> , 78, 17-28	3.5	8
74	Extrinsic Calibration of 2-D Lidars Using Two Orthogonal Planes. <i>IEEE Transactions on Robotics</i> , <b>2016</b> , 32, 83-98	6.5	25
73	Stereo Matching with Color and Monochrome Cameras in Low-Light Conditions <b>2016</b> ,		14
72	Simultaneous Estimation of Near IR BRDF and Fine-Scale Surface Geometry <b>2016</b> ,		10
71	Multi-view Object Extraction with Fractional Boundaries. <i>IEEE Transactions on Image Processing</i> , <b>2016</b> , 25, 3639-3654	8.7	7
70	Thermal-infrared based drivable region detection <b>2016</b> ,		11
69	An Autonomous Driving System for Unknown Environments Using a Unified Map. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2015</b> , 16, 1999-2013	6.1	31
68	Bayesian filtering for keyframe-based visual SLAM. <i>International Journal of Robotics Research</i> , <b>2015</b> , 34, 517-531	5.7	7
67	Line meets as-projective-as-possible image stitching with moving DLT <b>2015</b> ,		24
66	Complementary Sets of Shutter Sequences for Motion Deblurring <b>2015</b> ,		2
65	Accurate Camera Calibration Robust to Defocus Using a Smartphone <b>2015</b> ,		9
64	P-73: Lenticular Lens Parameter Estimation Using Single Image for Crosstalk Reduction of Three-Dimensional Multi-View Display. <i>Digest of Technical Papers SID International Symposium</i> , <b>2015</b> , 46, 1417-1420	0.5	4
63	Time-of-Flight Sensor Calibration for a Color and Depth Camera Pair. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2015</b> , 37, 1501-13	13.3	41
62	Depth from accidental motion using geometry prior <b>2015</b> ,		2
61	Learning a Deep Convolutional Network for Light-Field Image Super-Resolution <b>2015</b> ,		128

60	Combinatorial approach for lane detection using image and LIDAR reflectance <b>2015,</b>		1
59	Multispectral pedestrian detection: Benchmark dataset and baseline <b>2015,</b>		256
58	One-day outdoor photometric stereo via skylight estimation <b>2015,</b>		16
57	Reflection removal using disparity and gradient-sparsity via smoothing algorithm <b>2015,</b>		8
56	Accelerated Kmeans Clustering Using Binary Random Projection. <i>Lecture Notes in Computer Science,</i> <b>2015,</b> 257-272	0.9	1
55	Rao-Blackwellized particle filtering with Gaussian mixture models for robust visual tracking. <i>Computer Vision and Image Understanding,</i> <b>2014,</b> 125, 128-137	4.3	9
54	Exploiting Shading Cues in Kinect IR Images for Geometry Refinement <b>2014,</b>		21
53	Sensor fusion of cameras and a laser for city-scale 3D reconstruction. <i>Sensors,</i> <b>2014,</b> 14, 20882-909	3.8	6
52	<b>2014,</b>		9
51	Auto-adjusting camera exposure for outdoor robotics using gradient information <b>2014,</b>		24
50	2D-3D camera fusion for visual odometry in outdoor environments <b>2014,</b>		9
49	High-quality depth map upsampling and completion for RGB-D cameras. <i>IEEE Transactions on Image Processing,</i> <b>2014,</b> 23, 5559-72	8.7	72
48	Cost-aware depth map estimation for Lytro camera <b>2014,</b>		7
47	A Perceptual Visual Feature Extraction Method Achieved by Imitating V1 and V4 of the Human Visual System. <i>Cognitive Computation,</i> <b>2013,</b> 5, 610-628	4.4	2
46	Crosswalk and traffic light detection via integral framework <b>2013,</b>		11
45	Radiometric calibration by rank minimization. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence,</i> <b>2013,</b> 35, 144-56	13.3	35
44	A branch-and-bound approach to correspondence and grouping problems. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence,</i> <b>2013,</b> 35, 1565-76	13.3	32
43	Fluttering Pattern Generation Using Modified Legendre Sequence for Coded Exposure Imaging <b>2013,</b>		9

42	High dynamic range imaging by a rank-1 constraint <b>2013</b> ,		11
41	Multiview Photometric Stereo Using Planar Mesh Parameterization <b>2013</b> ,		24
40	High Quality Shape from a Single RGB-D Image under Uncalibrated Natural Illumination <b>2013</b> ,		64
39	Robust Real-time Tracking of Facial Features with Application to Emotion Recognition. <i>The Journal of Korea Robotics Society</i> , <b>2013</b> , 8, 266-272	0.3	2
38	Fusing Multiple Independent Estimates via Spectral Clustering for Robust Visual Tracking. <i>IEEE Signal Processing Letters</i> , <b>2012</b> , 19, 527-530	3.2	2
37	Real-time motion detection based on Discrete Cosine Transform <b>2012</b> ,		1
36	Autonomous homing based on laser-camera fusion system <b>2012</b> ,		3
35	Multi lidar system for fast obstacle detection <b>2012</b> ,		1
34	Capturing Village-level Heritages with a Hand-held Camera-Laser Fusion Sensor. <i>International Journal of Computer Vision</i> , <b>2011</b> , 94, 36-53	10.6	42
33	Metric reconstruction of planes utilizing off-the-plane features. <i>Computer Vision and Image Understanding</i> , <b>2011</b> , 115, 1-7	4.3	2
32	Vision-based navigation with efficient scene recognition. <i>Intelligent Service Robotics</i> , <b>2011</b> , 4, 191-202	2.6	5
31	Euclidean structure from confocal conics: Theory and application to camera calibration. <i>Computer Vision and Image Understanding</i> , <b>2010</b> , 114, 803-812	4.3	5
30	Camera calibration based on arbitrary parallelograms. <i>Computer Vision and Image Understanding</i> , <b>2009</b> , 113, 1-10	4.3	12
29	Robust feature point matching by preserving local geometric consistency. <i>Computer Vision and Image Understanding</i> , <b>2009</b> , 113, 726-742	4.3	36
28	Simultaneous place and object recognition using collaborative context information. <i>Image and Vision Computing</i> , <b>2009</b> , 27, 824-833	3.7	1
27	Preface Message from the Guest Editors-In-Chief. <i>IPSJ Transactions on Computer Vision and Applications</i> , <b>2009</b> , 1, 82-82	3.3	
26	Message from the Guest Editors-In-Chief. <i>IPSJ Transactions on Computer Vision and Applications</i> , <b>2009</b> , 1, 127-127	3.3	
25	Distinctive Similarity Measure for stereo matching under point ambiguity. <i>Computer Vision and Image Understanding</i> , <b>2008</b> , 112, 173-183	4.3	19



24	Scalable representation for 3D object recognition using feature sharing and view clustering. <i>Pattern Recognition</i> , <b>2008</b> , 41, 754-773	7.7	14
23	Change detection using a statistical model in an optimally selected color space. <i>Computer Vision and Image Understanding</i> , <b>2008</b> , 112, 231-242	4.3	3
22	Object recognition using a generalized robust invariant feature and Gestalt's law of proximity and similarity. <i>Pattern Recognition</i> , <b>2008</b> , 41, 726-741	7.7	19
21	Robust model-based scene interpretation by multilayered context information. <i>Computer Vision and Image Understanding</i> , <b>2007</b> , 105, 167-187	4.3	3
20	Fast Separation of Reflection Components using a Specularity-Invariant Image Representation <b>2006</b> ,		37
19	Adaptive support-weight approach for correspondence search. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2006</b> , 28, 650-6	13.3	721
18	3D target recognition using cooperative feature map binding under Markov Chain Monte Carlo. <i>Pattern Recognition Letters</i> , <b>2006</b> , 27, 811-821	4.7	6
17	Appearance-Cloning: Photo-Consistent Scene Recovery from Multi-View Images. <i>International Journal of Computer Vision</i> , <b>2006</b> , 66, 163-192	10.6	3
16	Semi-metric Space: A New Approach to Treat Orthogonality and Parallelism. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 529-538	0.9	2
15	Infinite Homography Estimation Using Two Arbitrary Planar Rectangles. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 1-10	0.9	2
14	Scalable Representation and Learning for 3D Object Recognition Using Shared Feature-Based View Clustering. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 561-570	0.9	3
13	Automatic model-based 3D object recognition by combining feature matching with tracking. <i>Machine Vision and Applications</i> , <b>2005</b> , 16, 267-272	2.8	5
12	An effective 3D target recognition model imitating robust methods of the human visual system. <i>Pattern Analysis and Applications</i> , <b>2005</b> , 8, 211-226	2.3	
11	Recognition-based indoor topological navigation using robust invariant features <b>2005</b> ,		2
10	Fast object recognition using dynamic programming from combination of salient line groups. <i>Pattern Recognition</i> , <b>2003</b> , 36, 79-90	7.7	12
9	COP: a new corner detector. <i>Pattern Recognition Letters</i> , <b>2002</b> , 23, 1349-1360	4.7	20
8	Color indexing using chromatic invariant. <i>Pattern Recognition</i> , <b>2001</b> , 34, 1189-1197	7.7	2
7	Robust and direct estimation of 3-D motion and scene depth from stereo image sequences. <i>Pattern Recognition</i> , <b>2001</b> , 34, 1713-1728	7.7	9

- 6 An edge-based algorithm for discontinuity adaptive color image smoothing. *Pattern Recognition*, **2001**, 34, 333-342 7-7 2
- 5 3-D object recognition using a new invariant relationship by single-view. *Pattern Recognition*, **2000**, 33, 741-754 7-7 12
- 4 Robust direct motion estimation considering discontinuity. *Pattern Recognition Letters*, **2000**, 21, 999-1011 7-7 3
- 3 Group-based Multi Agent System Configuration for Robot Navigation.. *Journal of the Robotics Society of Japan*, **1995**, 13, 375-382 0-1
- 2 A biprism-stereo camera system 3
- 1 Segment2Regress: Monocular 3D Vehicle Localization in Two Stages 2