

In So Kweon

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.

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	CBAM: Convolutional Block Attention Module. <i>Lecture Notes in Computer Science</i> , 2018 , 3-19	0.9	1980
148	Adaptive support-weight approach for correspondence search. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2006 , 28, 650-6	13.3	721
147	Multispectral pedestrian detection: Benchmark dataset and baseline 2015 ,		256
146	VPGNet: Vanishing Point Guided Network for Lane and Road Marking Detection and Recognition 2017 ,		136
145	Learning a Deep Convolutional Network for Light-Field Image Super-Resolution 2015 ,		128
144	Light-Field Image Super-Resolution Using Convolutional Neural Network. <i>IEEE Signal Processing Letters</i> , 2017 , 24, 848-852	3.2	88
143	KAIST Multi-Spectral Day/Night Data Set for Autonomous and Assisted Driving. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 934-948	6.1	88
142	Self-Supervised Video Representation Learning with Space-Time Cubic Puzzles. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019 , 33, 8545-8552	5	82
141	Unsupervised Intra-Domain Adaptation for Semantic Segmentation Through Self-Supervision 2020 ,		75
140	High-quality depth map upsampling and completion for RGB-D cameras. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 5559-72	8.7	72
139	High Quality Shape from a Single RGB-D Image under Uncalibrated Natural Illumination 2013 ,		64
138	A Unified Approach of Multi-scale Deep and Hand-Crafted Features for Defocus Estimation 2017 ,		46
137	Ambiguous Surface Defect Image Classification of AMOLED Displays in Smartphones. <i>IEEE Transactions on Industrial Informatics</i> , 2016 , 12, 597-607	11.9	43
136	Capturing Village-level Heritages with a Hand-held Camera-Laser Fusion Sensor. <i>International Journal of Computer Vision</i> , 2011 , 94, 36-53	10.6	42
135	A Real-Time Augmented Reality System to See-Through Cars. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2016 , 22, 2395-404	4	41
134	Time-of-Flight Sensor Calibration for a Color and Depth Camera Pair. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015 , 37, 1501-13	13.3	41
133	Fast Separation of Reflection Components using a Specularity-Invariant Image Representation 2006 ,		37

132	Real-time head pose estimation using multi-task deep neural network. <i>Robotics and Autonomous Systems</i> , 2018 , 103, 1-12	3.5	36
131	Robust feature point matching by preserving local geometric consistency. <i>Computer Vision and Image Understanding</i> , 2009 , 113, 726-742	4.3	36
130	Non-local Spatial Propagation Network for Depth Completion. <i>Lecture Notes in Computer Science</i> , 2020 , 120-136	0.9	36
129	Radiometric calibration by rank minimization. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013 , 35, 144-56	13.3	35
128	A branch-and-bound approach to correspondence and grouping problems. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013 , 35, 1565-76	13.3	32
127	An Autonomous Driving System for Unknown Environments Using a Unified Map. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 1999-2013	6.1	31
126	StairNet: Top-Down Semantic Aggregation for Accurate One Shot Detection 2018 ,		30
125	All-Around Depth from Small Motion with a Spherical Panoramic Camera. <i>Lecture Notes in Computer Science</i> , 2016 , 156-172	0.9	29
124	Discriminative Feature Learning for Unsupervised Video Summarization. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019 , 33, 8537-8544	5	25
123	Extrinsic Calibration of 2-D Lidars Using Two Orthogonal Planes. <i>IEEE Transactions on Robotics</i> , 2016 , 32, 83-98	6.5	25
122	Automated checkerboard detection and indexing using circular boundaries. <i>Pattern Recognition Letters</i> , 2016 , 71, 66-72	4.7	24
121	2017 ,		24
120	Line meets as-projective-as-possible image stitching with moving DLT 2015 ,		24
119	Auto-adjusting camera exposure for outdoor robotics using gradient information 2014 ,		24
118	Multiview Photometric Stereo Using Planar Mesh Parameterization 2013 ,		24
117	RANUS: RGB and NIR Urban Scene Dataset for Deep Scene Parsing. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 1808-1815	4.2	21
116	Exploiting Shading Cues in Kinect IR Images for Geometry Refinement 2014 ,		21
115	COP: a new corner detector. <i>Pattern Recognition Letters</i> , 2002 , 23, 1349-1360	4.7	20

114	Dense Relational Captioning: Triple-Stream Networks for Relationship-Based Captioning 2019 ,		20
113	Fast multiple objects detection and tracking fusing color camera and 3D LIDAR for intelligent vehicles 2016 ,		19
112	Distinctive Similarity Measure for stereo matching under point ambiguity. <i>Computer Vision and Image Understanding</i> , 2008 , 112, 173-183	4.3	19
111	Object recognition using a generalized robust invariant feature and Gestalt's law of proximity and similarity. <i>Pattern Recognition</i> , 2008 , 41, 726-741	7.7	19
110	A Simple and Light-Weight Attention Module for Convolutional Neural Networks. <i>International Journal of Computer Vision</i> , 2020 , 128, 783-798	10.6	18
109	Depth Completion with Deep Geometry and Context Guidance 2019 ,		17
108	One-day outdoor photometric stereo via skylight estimation 2015 ,		16
107	Variational Prototyping-Encoder: One-Shot Learning With Prototypical Images 2019 ,		16
106	Refining Geometry from Depth Sensors using IR Shading Images. <i>International Journal of Computer Vision</i> , 2017 , 122, 1-16	10.6	15
105	Detecting Human-Object Interactions with Action Co-occurrence Priors. <i>Lecture Notes in Computer Science</i> , 2020 , 718-736	0.9	15
104	Robust Reference-Based Super-Resolution With Similarity-Aware Deformable Convolution 2020 ,		15
103	Globally Optimal Manhattan Frame Estimation in Real-Time 2016 ,		14
102	Scalable representation for 3D object recognition using feature sharing and view clustering. <i>Pattern Recognition</i> , 2008 , 41, 754-773	7.7	14
101	Stereo Matching with Color and Monochrome Cameras in Low-Light Conditions 2016 ,		14
100	Efficient adaptive non-maximal suppression algorithms for homogeneous spatial keypoint distribution. <i>Pattern Recognition Letters</i> , 2018 , 106, 53-60	4.7	13
99	Robust and Globally Optimal Manhattan Frame Estimation in Near Real Time. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2019 , 41, 682-696	13.3	13
98	Camera calibration based on arbitrary parallelograms. <i>Computer Vision and Image Understanding</i> , 2009 , 113, 1-10	4.3	12
97	Fast object recognition using dynamic programming from combination of salient line groups. <i>Pattern Recognition</i> , 2003 , 36, 79-90	7.7	12

96	3-D object recognition using a new invariant relationship by single-view. <i>Pattern Recognition</i> , 2000 , 33, 741-754	7.7	12
95	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> , 2018 , 15, 1272-1285	4.9	11
94	Gradient-Based Camera Exposure Control for Outdoor Mobile Platforms. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019 , 29, 1569-1583	6.4	11
93	Crosswalk and traffic light detection via integral framework 2013 ,		11
92	Noise Robust Depth from Focus Using a Ring Difference Filter 2017 ,		11
91	High dynamic range imaging by a rank-1 constraint 2013 ,		11
90	Thermal-infrared based drivable region detection 2016 ,		11
89	Gated bidirectional feature pyramid network for accurate one-shot detection. <i>Machine Vision and Applications</i> , 2019 , 30, 543-555	2.8	10
88	Simultaneous Estimation of Near IR BRDF and Fine-Scale Surface Geometry 2016 ,		10
87	Globally Optimal Inlier Set Maximization for Atlanta Frame Estimation 2018 ,		10
86	Multi-Image Deblurring Using Complementary Sets of Fluttering Patterns. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 2311-2326	8.7	9
85	Rao-Blackwellized particle filtering with Gaussian mixture models for robust visual tracking. <i>Computer Vision and Image Understanding</i> , 2014 , 125, 128-137	4.3	9
84	Structure-From-Motion in 3D Space Using 2D Lidars. <i>Sensors</i> , 2017 , 17,	3.8	9
83	Accurate Camera Calibration Robust to Defocus Using a Smartphone 2015 ,		9
82	2014 ,		9
81	2D-3D camera fusion for visual odometry in outdoor environments 2014 ,		9
80	Fluttering Pattern Generation Using Modified Legendre Sequence for Coded Exposure Imaging 2013 ,		9
79	Robust and direct estimation of 3-D motion and scene depth from stereo image sequences. <i>Pattern Recognition</i> , 2001 , 34, 1713-1728	7.7	9

78	Extrinsic calibration of a camera and a 2D laser without overlap. <i>Robotics and Autonomous Systems</i> , 2016 , 78, 17-28	3.5	8
77	Reflection removal using disparity and gradient-sparsity via smoothing algorithm 2015 ,		8
76	Learning Open-World Object Proposals without Learning to Classify. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1	4.2	8
75	Image Captioning with Very Scarce Supervised Data: Adversarial Semi-Supervised Learning Approach 2019 ,		8
74	3D Display Calibration by Visual Pattern Analysis. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 2090-2102	2.9	7
73	Generating Fluttering Patterns with Low Autocorrelation for Coded Exposure Imaging. <i>International Journal of Computer Vision</i> , 2017 , 123, 269-286	10.6	7
72	Bayesian filtering for keyframe-based visual SLAM. <i>International Journal of Robotics Research</i> , 2015 , 34, 517-531	5.7	7
71	Local deformation calibration for autostereoscopic 3D display. <i>Optics Express</i> , 2017 , 25, 10801-10814	3.3	7
70	Cost-aware depth map estimation for Lytro camera 2014 ,		7
69	Multi-view Object Extraction with Fractional Boundaries. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 3639-3654	8.7	7
68	Fast Perception, Planning, and Execution for a Robotic Butler: Wheeled Humanoid M-Hubo 2019 ,		7
67	Globally Optimal Inlier Set Maximization for Atlanta World Understanding. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020 , 42, 2656-2669	13.3	7
66	Disjoint Multi-task Learning Between Heterogeneous Human-Centric Tasks 2018 ,		7
65	Volumetric Propagation Network: Stereo-LiDAR Fusion for Long-Range Depth Estimation. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 4672-4679	4.2	7
64	MS-UDA: Multi-Spectral Unsupervised Domain Adaptation for Thermal Image Semantic Segmentation. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 6497-6504	4.2	7
63	Category-Specific Salient View Selection via Deep Convolutional Neural Networks. <i>Computer Graphics Forum</i> , 2017 , 36, 313-328	2.4	6
62	Sensor fusion of cameras and a laser for city-scale 3D reconstruction. <i>Sensors</i> , 2014 , 14, 20882-909	3.8	6
61	3D target recognition using cooperative feature map binding under Markov Chain Monte Carlo. <i>Pattern Recognition Letters</i> , 2006 , 27, 811-821	4.7	6

60	Probabilistic moving least squares with spatial constraints for nonlinear color transfer between images. <i>Computer Vision and Image Understanding</i> , 2019 , 180, 1-12	4.3	5
59	A Closed-Form Solution to Rotation Estimation for Structure from Small Motion. <i>IEEE Signal Processing Letters</i> , 2018 , 25, 393-397	3.2	5
58	Vision-based navigation with efficient scene recognition. <i>Intelligent Service Robotics</i> , 2011 , 4, 191-202	2.6	5
57	Euclidean structure from confocal conics: Theory and application to camera calibration. <i>Computer Vision and Image Understanding</i> , 2010 , 114, 803-812	4.3	5
56	Automatic model-based 3D object recognition by combining feature matching with tracking. <i>Machine Vision and Applications</i> , 2005 , 16, 267-272	2.8	5
55	Learning Residual Flow as Dynamic Motion from Stereo Videos 2019 ,		5
54	Camera Exposure Control for Robust Robot Vision with Noise-Aware Image Quality Assessment 2019 ,		5
53	Geometry Guided Three-Dimensional Propagation for Depth From Small Motion. <i>IEEE Signal Processing Letters</i> , 2017 , 24, 1857-1861	3.2	4
52	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> , 2015 , 46, 1417-1420	0.5	4
51	Online Misalignment Estimation of Strapdown Navigation for Land Vehicle under Dynamic Condition. <i>International Journal of Automotive Technology</i> , 2021 , 22, 1723-1733	1.6	4
50	DISC: A Large-scale Virtual Dataset for Simulating Disaster Scenarios 2019 ,		4
49	Category-Level Metric Scale Object Shape and Pose Estimation. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 8575-8582	4.2	4
48	MCDAL: Maximum Classifier Discrepancy for Active Learning.. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022 , PP,	10.3	4
47	6-DOF Direct Homography Tracking with Extended Kalman Filter. <i>Lecture Notes in Computer Science</i> , 2016 , 447-460	0.9	3
46	Deep representation of industrial components using simulated images 2017 ,		3
45	Autonomous homing based on laser-camera fusion system 2012 ,		3
44	Robust model-based scene interpretation by multilayered context information. <i>Computer Vision and Image Understanding</i> , 2007 , 105, 167-187	4.3	3
43	Change detection using a statistical model in an optimally selected color space. <i>Computer Vision and Image Understanding</i> , 2008 , 112, 231-242	4.3	3

42	Appearance-Cloning: Photo-Consistent Scene Recovery from Multi-View Images. <i>International Journal of Computer Vision</i> , 2006 , 66, 163-192	10.6	3
41	Robust direct motion estimation considering discontinuity. <i>Pattern Recognition Letters</i> , 2000 , 21, 999-1011	1.7	3
40	A biprism-stereo camera system		3
39	ACP++: Action Co-Occurrence Priors for Human-Object Interaction Detection. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 9150-9163	8.7	3
38	Scalable Representation and Learning for 3D Object Recognition Using Shared Feature-Based View Clustering. <i>Lecture Notes in Computer Science</i> , 2006 , 561-570	0.9	3
37	A Perceptual Visual Feature Extraction Method Achieved by Imitating V1 and V4 of the Human Visual System. <i>Cognitive Computation</i> , 2013 , 5, 610-628	4.4	2
36	Complementary Sets of Shutter Sequences for Motion Deblurring 2015 ,		2
35	Depth from accidental motion using geometry prior 2015 ,		2
34	Fusing Multiple Independent Estimates via Spectral Clustering for Robust Visual Tracking. <i>IEEE Signal Processing Letters</i> , 2012 , 19, 527-530	3.2	2
33	Metric reconstruction of planes utilizing off-the-plane features. <i>Computer Vision and Image Understanding</i> , 2011 , 115, 1-7	4.3	2
32	Recognition-based indoor topological navigation using robust invariant features 2005 ,		2
31	Color indexing using chromatic invariant. <i>Pattern Recognition</i> , 2001 , 34, 1189-1197	7.7	2
30	An edge-based algorithm for discontinuity adaptive color image smoothing. <i>Pattern Recognition</i> , 2001 , 34, 333-342	7.7	2
29	Segment2Regress: Monocular 3D Vehicle Localization in Two Stages		2
28	Robust Real-time Tracking of Facial Features with Application to Emotion Recognition. <i>The Journal of Korea Robotics Society</i> , 2013 , 8, 266-272	0.3	2
27	Dealing with Missing Modalities in the Visual Question Answer-Difference Prediction Task through Knowledge Distillation 2021 ,		2
26	Category-specific upright orientation estimation for 3D model classification and retrieval. <i>Image and Vision Computing</i> , 2020 , 96, 103900	3.7	2
25	Linear RGB-D SLAM for Structured Environments. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , PP,	13.3	2

24	Semi-metric Space: A New Approach to Treat Orthogonality and Parallelism. <i>Lecture Notes in Computer Science</i> , 2006 , 529-538	0.9	2
23	Infinite Homography Estimation Using Two Arbitrary Planar Rectangles. <i>Lecture Notes in Computer Science</i> , 2006 , 1-10	0.9	2
22	One-Day Outdoor Photometric Stereo Using Skylight Estimation. <i>International Journal of Computer Vision</i> , 2019 , 127, 1126-1142	10.6	1
21	Combinatorial approach for lane detection using image and LIDAR reflectance 2015 ,		1
20	Real-time motion detection based on Discrete Cosine Transform 2012 ,		1
19	Simultaneous place and object recognition using collaborative context information. <i>Image and Vision Computing</i> , 2009 , 27, 824-833	3.7	1
18	Multi lidar system for fast obstacle detection 2012 ,		1
17	MC-Calib: A generic and robust calibration toolbox for multi-camera systems. <i>Computer Vision and Image Understanding</i> , 2022 , 217, 103353	4.3	1
16	Self-Supervised Depth and Ego-Motion Estimation for Monocular Thermal Video Using Multi-Spectral Consistency Loss. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 1103-1110	4.2	1
15	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> , 2017 , 12, 313-321	0.3	1
14	Stereo Object Matching Network 2021 ,		1
13	Lane Detection Aided Online Dead Reckoning for GNSS Denied Environments. <i>Sensors</i> , 2021 , 21,	3.8	1
12	Accelerated Kmeans Clustering Using Binary Random Projection. <i>Lecture Notes in Computer Science</i> , 2015 , 257-272	0.9	1
11	Generating Fluttering Patterns with Low Autocorrelation for Coded Exposure Imaging 2017 , 123, 269		1
10	Vehicular Multi-Camera Sensor System for Automated Visual Inspection of Electric Power Distribution Equipment 2019 ,		1
9	Real-Time Multi-Car Localization and See-Through System. <i>International Journal of Computer Vision</i> , 2022 , 130, 384	10.6	0
8	Adaptive Cost Volume Fusion Network for Multi-Modal Depth Estimation in Changing Environments. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 5095-5102	4.2	0
7	Salient View Selection for Visual Recognition of Industrial Components. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 2506-2513	4.2	

6	Fast and robust binary descriptor using intensity rank binning. <i>Electronics Letters</i> , 2017 , 53, 79-81	1.1
5	Preface Message from the Guest Editors-In-Chief. <i>IP SJ Transactions on Computer Vision and Applications</i> , 2009 , 1, 82-82	3.3
4	Message from the Guest Editors-In-Chief. <i>IP SJ Transactions on Computer Vision and Applications</i> , 2009 , 1, 127-127	3.3
3	An effective 3D target recognition model imitating robust methods of the human visual system. <i>Pattern Analysis and Applications</i> , 2005 , 8, 211-226	2.3
2	Group-based Multi Agent System Configuration for Robot Navigation.. <i>Journal of the Robotics Society of Japan</i> , 1995 , 13, 375-382	0.1
1	2D-3D Pose Estimation using Multi-view Object Co-segmentation. <i>The Journal of Korea Robotics Society</i> , 2017 , 12, 33-41	0.3