

# Kyoung Mu Lee

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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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.

137  
papers

9,856  
citations

36  
h-index

99  
g-index

157  
ext. papers

13,479  
ext. citations

4.5  
avg, IF

7.09  
L-index

#	Paper	IF	Citations
137	Visual Tracking by Adaptive Continual Meta-Learning. <i>IEEE Access</i> , <b>2022</b> , 10, 9022-9035	3.5	0
136	SRWarp: Generalized Image Super-Resolution under Arbitrary Transformation <b>2021</b> ,		4
135	Topology-Aware Retinal Artery/Vein Classification via Deep Vascular Connectivity Prediction. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 320	2.6	0
134	Joint segmentation and classification of hepatic lesions in ultrasound images using deep learning. <i>European Radiology</i> , <b>2021</b> , 31, 8733-8742	8	7
133	Toward Real-World Super-Resolution via Adaptive Downsampling Models. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2021</b> , PP,	13.3	3
132	DynaVSR: Dynamic Adaptive Blind Video Super-Resolution <b>2021</b> ,		3
131	Triplanar convolution with shared 2D kernels for 3D classification and shape retrieval. <i>Computer Vision and Image Understanding</i> , <b>2020</b> , 193, 102901	4.3	2
130	I2L-MeshNet: Image-to-Lixel Prediction Network for Accurate 3D Human Pose and Mesh Estimation from a Single RGB Image. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 752-768	0.9	33
129	Learning to Forget for Meta-Learning <b>2020</b> ,		11
128	Bi-Directional Seed Attention Network for Interactive Image Segmentation. <i>IEEE Signal Processing Letters</i> , <b>2020</b> , 27, 1540-1544	3.2	1
127	Deep vessel segmentation by learning graphical connectivity. <i>Medical Image Analysis</i> , <b>2019</b> , 58, 101556	15.4	63
126	SPNet: Deep 3D Object Classification and Retrieval Using Stereographic Projection. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 691-706	0.9	7
125	AIM 2019 Challenge on Video Temporal Super-Resolution: Methods and Results <b>2019</b> ,		7
124	Deep Meta Learning for Real-Time Target-Aware Visual Tracking <b>2019</b> ,		39
123	Camera Distance-Aware Top-Down Approach for 3D Multi-Person Pose Estimation From a Single RGB Image <b>2019</b> ,		73
122	Joint Weakly and Semi-Supervised Deep Learning for Localization and Classification of Masses in Breast Ultrasound Images. <i>IEEE Transactions on Medical Imaging</i> , <b>2019</b> , 38, 762-774	11.7	49
121	2D $\mathbb{B}$ D pose consistency-based conditional random fields for 3D human pose estimation. <i>Computer Vision and Image Understanding</i> , <b>2018</b> , 169, 52-61	4.3	8

120	Robust Light Field Depth Estimation Using Occlusion-Noise Aware Data Costs. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2018</b> , 40, 2484-2497	13.3	41
119	Dynamic Video Deblurring Using a Locally Adaptive Blur Model. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2018</b> , 40, 2374-2387	13.3	25
118	Task-Aware Image Downscaling. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 419-434	0.9	18
117	Joint Blind Motion Deblurring and Depth Estimation of Light Field. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 300-316	0.9	8
116	V2V-PoseNet: Voxel-to-Voxel Prediction Network for Accurate 3D Hand and Human Pose Estimation from a Single Depth Map <b>2018</b> ,		45
115	SeedNet: Automatic Seed Generation with Deep Reinforcement Learning for Robust Interactive Segmentation <b>2018</b> ,		8
114	<b>2018</b> ,		89
113	Depth Estimation Network for Dual Defocused Images with Different Depth-of-Field <b>2018</b> ,		4
112	Real-time visual tracking by deep reinforced decision making. <i>Computer Vision and Image Understanding</i> , <b>2018</b> , 171, 10-19	4.3	24
111	Adaptive Visual Tracking with Minimum Uncertainty Gap Estimation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2017</b> , 39, 18-31	13.3	8
110	Look Wider to Match Image Patches With Convolutional Neural Networks. <i>IEEE Signal Processing Letters</i> , <b>2017</b> , 24, 1788-1792	3.2	49
109	NTIRE 2017 Challenge on Single Image Super-Resolution: Methods and Results <b>2017</b> ,		322
108	Enhanced Deep Residual Networks for Single Image Super-Resolution <b>2017</b> ,		1845
107	Depth maps and high-dynamic range image generation from alternating exposure multiview images. <i>Journal of Electronic Imaging</i> , <b>2017</b> , 26, 043006	0.7	1
106	Deep Multi-scale Convolutional Neural Network for Dynamic Scene Deblurring <b>2017</b> ,		531
105	Joint Estimation of Camera Pose, Depth, Deblurring, and Super-Resolution from a Blurred Image Sequence <b>2017</b> ,		26
104	Deep recurrent resnet for video super-resolution <b>2017</b> ,		5
103	Multi-modal/multi-scale convolutional neural network based in-loop filter design for next generation video codec <b>2017</b> ,		36

102	Online Video Deblurring via Dynamic Temporal Blending Network <b>2017</b> ,		60
101	A Sequential Approach to 3D Human Pose Estimation: Separation of Localization and Identification of Body Joints. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 747-761	0.9	4
100	Accurate Image Super-Resolution Using Very Deep Convolutional Networks <b>2016</b> ,		2274
99	Deeply-Recursive Convolutional Network for Image Super-Resolution <b>2016</b> ,		1081
98	A Unified Framework for Event Summarization and Rare Event Detection from Multiple Views. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2015</b> , 37, 1737-50	13.3	17
97	Large margin learning of hierarchical semantic similarity for image classification. <i>Computer Vision and Image Understanding</i> , <b>2015</b> , 132, 3-11	4.3	6
96	Random forest with data ensemble for saliency detection <b>2015</b> ,		1
95	Image Segmentation by Edge Partitioning over a Nonsubmodular Markov Random Field. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-9	1.1	1
94	Discrete Tabu Search for Graph Matching <b>2015</b> ,		30
93	Subgraph matching using compactness prior for robust feature correspondence <b>2015</b> ,		11
92	Generalized video deblurring for dynamic scenes <b>2015</b> ,		65
91	A Novel Cascade Classifier for Automatic Microcalcification Detection. <i>PLoS ONE</i> , <b>2015</b> , 10, e0143725	3.7	4
90	A Geometric Particle Filter for Template-Based Visual Tracking. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2014</b> , 36, 625-43	13.3	37
89	Interval Tracker: Tracking by Interval Analysis <b>2014</b> ,		6
88	Tracking by Sampling and Integrating Multiple Trackers. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2014</b> , 36, 1428-41	13.3	53
87	Segmentation-Free Dynamic Scene Deblurring <b>2014</b> ,		81
86	Stereo reconstruction using high-order likelihoods. <i>Computer Vision and Image Understanding</i> , <b>2014</b> , 125, 223-236	4.3	5
85	Robust Visual Tracking with Double Bounding Box Model. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 377-392	1.9	9

84	Alpha Matting of Motion-Blurred Objects in Bracket Sequence Images. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 125-139	0.9	2
83	Multi-object reconstruction from dynamic scenes: An object-centered approach. <i>Computer Vision and Image Understanding</i> , <b>2013</b> , 117, 1575-1588	4.3	6
82	Window annealing for pixel-labeling problems. <i>Computer Vision and Image Understanding</i> , <b>2013</b> , 117, 289-303	4.3	1
81	Geometric particle swarm optimization for robust visual ego-motion estimation via particle filtering. <i>Image and Vision Computing</i> , <b>2013</b> , 31, 565-579	3.7	4
80	Wang-Landau Monte Carlo-based tracking methods for abrupt motions. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2013</b> , 35, 1011-24	13.3	45
79	Dynamic Scene Deblurring <b>2013</b> ,		69
78	Visual tracking using the joint inference of target state and segment-based appearance models <b>2013</b> ,		3
77	Learning full pairwise affinities for spectral segmentation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2013</b> , 35, 1690-703	13.3	71
76	Joint depth map and color consistency estimation for stereo images with different illuminations and cameras. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2013</b> , 35, 1094-106	13.3	63
75	Highly nonrigid object tracking via patch-based dynamic appearance modeling. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2013</b> , 35, 2427-41	13.3	62
74	Minimum Uncertainty Gap for Robust Visual Tracking <b>2013</b> ,		11
73	Tensor-Based High-Order Semantic Relation Transfer for Semantic Scene Segmentation <b>2013</b> ,		18
72	Optical Flow via Locally Adaptive Fusion of Complementary Data Costs <b>2013</b> ,		20
71	Co-recognition of Images and Videos: Unsupervised Matching of Identical Object Patterns and Its Applications <b>2013</b> , 113-141		
70	Mode-seeking on graphs via random walks <b>2012</b> ,		1
69	A unified framework for event summarization and rare event detection <b>2012</b> ,		2
68	Robust visual tracking using autoregressive hidden Markov Model <b>2012</b> ,		4
67	Learning object relationships via graph-based context model <b>2012</b> ,		3

66	Graph Matching via Sequential Monte Carlo. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 624-637	0.9	19
65	Abnormal Object Detection by Canonical Scene-Based Contextual Model. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 651-664	0.9	7
64	Robust stereo matching using adaptive normalized cross-correlation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2011</b> , 33, 807-22	13.3	160
63	A hybrid approach for MRF optimization problems: Combination of stochastic sampling and deterministic algorithms. <i>Computer Vision and Image Understanding</i> , <b>2011</b> , 115, 1623-1637	4.3	4
62	Hyper-graph matching via reweighted random walks <b>2011</b> ,		92
61	GPU-friendly multi-view stereo reconstruction using surfel representation and graph cuts. <i>Computer Vision and Image Understanding</i> , <b>2011</b> , 115, 620-634	4.3	15
60	Stereo reconstruction using high order likelihood <b>2011</b> ,		4
59	Simultaneous localization, mapping and deblurring <b>2011</b> ,		20
58	Tracking by Sampling Trackers <b>2011</b> ,		41
57	Ghost-Free High Dynamic Range Imaging. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 486-500	0.9	20
56	OBJECT CORRESPONDENCE NETWORKS FOR UNSUPERVISED RECOGNITION OF IDENTICAL OBJECTS. <i>Series in Computer Vision</i> , <b>2011</b> , 313-334		1
55	Learning full pairwise affinities for spectral segmentation <b>2010</b> ,		37
54	A Graph Matching Algorithm Using Data-Driven Markov Chain Monte Carlo Sampling <b>2010</b> ,		23
53	Nonparametric higher-order learning for interactive segmentation <b>2010</b> ,		34
52	Unsupervised detection and segmentation of identical objects <b>2010</b> ,		31
51	Monocular SLAM with locally planar landmarks via geometric rao-blackwellized particle filtering on Lie groups <b>2010</b> ,		11
50	Visual tracking decomposition <b>2010</b> ,		718
49	FPGA Design and Implementation of a Real-Time Stereo Vision System. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2010</b> , 20, 15-26	6.4	184

48	A Unified Probabilistic Approach to Feature Matching and Object Segmentation <b>2010</b> ,		4
47	Reweighted Random Walks for Graph Matching. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 492-505	0.9	155
46	A Probabilistic Model for Correspondence Problems Using Random Walks with Restart. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 416-425	0.9	
45	Edge-preserving colorization using data-driven Random Walks with Restart <b>2009</b> ,		15
44	Markov Chain Monte Carlo combined with deterministic methods for Markov random field optimization <b>2009</b> ,		2
43	Tracking of a non-rigid object via patch-based dynamic appearance modeling and adaptive Basin Hopping Monte Carlo sampling <b>2009</b> ,		68
42	Multiswarm Particle Filter for vision based SLAM <b>2009</b> ,		2
41	Mutual information-based stereo matching combined with SIFT descriptor in log-chromaticity color space <b>2009</b> ,		11
40	Multi-robot SLAM using ceiling vision <b>2009</b> ,		14
39	Feature correspondence and deformable object matching via agglomerative correspondence clustering <b>2009</b> ,		1
38	Stereo Matching Using Population-Based MCMC. <i>International Journal of Computer Vision</i> , <b>2009</b> , 83, 195-205	1.0	11
37	Visual tracking via geometric particle filtering on the affine group with optimal importance functions <b>2009</b> ,		25
36	Tracking of Abrupt Motion Using Wang-Landau Monte Carlo Estimation. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 387-400	0.9	36
35	Fusion of Lidar and Imagery for Reliable Building Extraction. <i>Photogrammetric Engineering and Remote Sensing</i> , <b>2008</b> , 74, 215-225	1.6	61
34	Segment-based Foreground Object Disparity Estimation Using Zcam and Multiple-View Stereo <b>2008</b> ,		2
33	Color-Based Image Retrieval Using Perceptually Modified Hausdorff Distance. <i>Eurasip Journal on Image and Video Processing</i> , <b>2008</b> , 2008, 1-10	2.5	14
32	Occlusion invariant face recognition using selective local non-negative matrix factorization basis images. <i>Image and Vision Computing</i> , <b>2008</b> , 26, 1515-1523	3.7	90
31	Shape from shading using graph cuts. <i>Pattern Recognition</i> , <b>2008</b> , 41, 3749-3757	7.7	6

30	Window Annealing over Square Lattice Markov Random Field. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 307-320	0.9	4
29	Generative Image Segmentation Using Random Walks with Restart. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 264-275	0.9	50
28	Co-recognition of Image Pairs by Data-Driven Monte Carlo Image Exploration. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 144-157	0.9	19
27	Toward Global Minimum through Combined Local Minima. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 298-311	0.9	7
26	Simultaneous Depth Reconstruction and Restoration of Noisy Stereo Images using Non-local Pixel Distribution <b>2007</b> ,		16
25	Stereo matching using iterative reliable disparity map expansion in the color-spatial-disparity space. <i>Pattern Recognition</i> , <b>2007</b> , 40, 3705-3713	7.7	4
24	Partially Occluded Object-Specific Segmentation in View-Based Recognition <b>2007</b> ,		2
23	Multiview normal field integration using level set methods <b>2007</b> ,		16
22	Stereo Matching Using Population-Based MCMC. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 560-569	0.9	2
21	Visual SLAM with Line and Corner Features <b>2006</b> ,		44
20	A New Stereo Matching Model Using Visibility Constraint Based on Disparity Consistency. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 598-609	0.9	1
19	A Novel Stochastic Attributed Relational Graph Matching Based on Relation Vector Space Analysis. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 978-989	0.9	
18	Stereo Matching Using Scanline Disparity Discontinuity Optimization. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 588-597	0.9	1
17	Stereo Matching Using Iterated Graph Cuts and Mean Shift Filtering. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 31-40	0.9	2
16	A New 3-D Model Retrieval System Based on Aspect-Transition Descriptor. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 543-554	0.9	1
15	A New Similarity Measure for Random Signatures: Perceptually Modified Hausdorff Distance. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 990-1001	0.9	5
14	CV-SLAM: a new ceiling vision-based SLAM technique <b>2005</b> ,		27
13	Perceptual grouping of line features in 3-D space: a model-based framework. <i>Pattern Recognition</i> , <b>2004</b> , 37, 145-159	7.7	6



12	Progressive encoding of binary voxel models using pyramidal decomposition. <i>Journal of Visual Communication and Image Representation</i> , <b>2004</b> , 15, 44-64	2.7	1
11	3D target recognition based on projective invariant relationships. <i>Journal of Visual Communication and Image Representation</i> , <b>2003</b> , 14, 1-21	2.7	2
10	Recognition of partially occluded objects using probabilistic ARG (attributed relational graph)-based matching. <i>Computer Vision and Image Understanding</i> , <b>2003</b> , 90, 217-241	4.3	24
9	Adaptive rate control algorithms for low bit rate video under networks supporting bandwidth renegotiation. <i>Signal Processing: Image Communication</i> , <b>2002</b> , 17, 759-779	2.8	7
8	Efficient Measurement of Shape Dissimilarity between 3D Models Using Z-Buffer and Surface Roving Method. <i>Eurasip Journal on Advances in Signal Processing</i> , <b>2002</b> , 2002, 1	1.9	5
7	Multi-image matching for a general motion stereo camera model. <i>Pattern Recognition</i> , <b>2001</b> , 34, 1701-1717	4.7	5
6	Model-Based Object Recognition Using Geometric Invariants of Points and Lines. <i>Computer Vision and Image Understanding</i> , <b>2001</b> , 84, 361-383	4.3	11
5	A Line Feature Matching Technique Based on an Eigenvector Approach. <i>Computer Vision and Image Understanding</i> , <b>2000</b> , 77, 263-283	4.3	21
4	Recognition of 2D Object Contours Using Starting-Point-Independent Wavelet Coefficient Matching. <i>Journal of Visual Communication and Image Representation</i> , <b>1998</b> , 9, 171-181	2.7	35
3	Shape from Shading with a Generalized Reflectance Map Model. <i>Computer Vision and Image Understanding</i> , <b>1997</b> , 67, 143-160	4.3	55
2	Shape from Photometric Ratio and Stereo. <i>Journal of Visual Communication and Image Representation</i> , <b>1996</b> , 7, 155-162	2.7	13
1	A dense stereo matching using two-pass dynamic programming with generalized ground control points		4