

# Min-Young Kim

## List of Publications by Year in descending order

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59  
papers

533  
citations

687363

13  
h-index

713466

21  
g-index

59  
all docs

59  
docs citations

59  
times ranked

456  
citing authors

#	ARTICLE	IF	CITATIONS
1	A sensor fusion system with thermal infrared camera and LiDAR for autonomous vehicles and deep learning based object detection. <i>ICT Express</i> , 2023, 9, 222-227.	4.8	22
2	Small Traffic Sign Detection in Big Images: Searching Needle in a Hay. <i>IEEE Access</i> , 2022, 10, 18667-18680.	4.2	10
3	Multi-scale synergy approach for real-time semantic segmentation. , 2022, , .		2
4	Usage of IR Sensors in the HVAC Systems, Vehicle and Manufacturing Industries: A Review. <i>IEEE Sensors Journal</i> , 2022, 22, 9164-9176.	4.7	4
5	High-density single shot 3D sensing using adaptable speckle projection system with varying preprocessing. <i>Optics and Lasers in Engineering</i> , 2021, 136, 106312.	3.8	10
6	Advanced visualization using image super-resolution method for three-dimensional mobile system. <i>Optics Communications</i> , 2021, 480, 126494.	2.1	6
7	Multi-Saliency Map and Machine Learning Based Human Detection for the Embedded Top-View Imaging System. <i>IEEE Access</i> , 2021, 9, 70671-70682.	4.2	2
8	Multichannel Object Detection for Detecting Suspected Trees With Pine Wilt Disease Using Multispectral Drone Imagery. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 8350-8358.	4.9	18
9	Positional estimation of invisible drone using acoustic array with A-shaped neural network. , 2021, , .		0
10	Supervised Learning Based Peripheral Vision System for Immersive Visual Experiences for Extended Display. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4726.	2.5	0
11	A Sensor Fusion System with Thermal Infrared Camera and LiDAR for Autonomous Vehicles: Its Calibration and Application. , 2021, , .		4
12	Comparative analysis of laser and simulated speckle pattern for single shot 3D reconstruction. <i>Applied Physics Letters</i> , 2021, 119, 131108.	3.3	0
13	Machine Learning-based Automatic Optical Inspection System with Multimodal Optical Image Fusion Network. <i>International Journal of Control, Automation and Systems</i> , 2021, 19, 3503-3510.	2.7	7
14	Advanced Three-Dimensional Visualization System for an Integral Imaging Microscope Using a Fully Convolutional Depth Estimation Network. <i>IEEE Photonics Journal</i> , 2020, 12, 1-14.	2.0	9
15	Residual Forward-Subtracted U-Shaped Network for Dynamic and Static Image Restoration. <i>IEEE Access</i> , 2020, 8, 145401-145412.	4.2	6
16	Automatic Optical Inspection System with Telecentric Optics and Phase-measuring Profilometry for Highly Accurate Localization of Electronic Packages. <i>International Journal of Control, Automation and Systems</i> , 2020, 18, 2120-2130.	2.7	1
17	Automatic segmentation of mitochondria and endolysosomes in volumetric electron microscopy data. <i>Computers in Biology and Medicine</i> , 2020, 119, 103693.	7.0	27
18	3D Contact Position Estimation of Image-Based Areal Soft Tactile Sensor with Printed Array Markers and Image Sensors. <i>Sensors</i> , 2020, 20, 3796.	3.8	5

#	ARTICLE	IF	CITATIONS
19	Global Motion-Aware Robust Visual Object Tracking for Electro Optical Targeting Systems. Sensors, 2020, 20, 566.	3.8	5
20	Cross Fusion-Based Low Dynamic and Saturated Image Enhancement for Infrared Search and Tracking Systems. IEEE Access, 2020, 8, 15347-15359.	4.2	7
21	Deep Learning-Based Object Detection and Target Selection for Image-Based Grasping Motion Control. Journal of the Korean Society for Precision Engineering, 2020, 37, 389-394.	0.2	1
22	High-Quality 3D Display for Integral Imaging Microscope Using Deep Learning Depth Estimation Algorithm. , 2020, , .		0
23	Ambient Environment Recognition Algorithm Fusing Vision and LiDAR Sensors for Robust Multi-channel V2X System. , 2019, , .		4
24	Resolution-Enhancement for an Integral Imaging Microscopy Using Deep Learning. IEEE Photonics Journal, 2019, 11, 1-12.	2.0	15
25	Deep learning based 3D defect detection system using photometric stereo illumination. , 2019, , .		13
26	Single shot laser speckle based 3D acquisition system for medical applications. Optics and Lasers in Engineering, 2018, 105, 43-53.	3.8	49
27	V-RBNN Based Small Drone Detection in Augmented Datasets for 3D LADAR System. Sensors, 2018, 18, 3825.	3.8	38
28	Multiple RGB-D Camera-based User Intent Position and Object Estimation. , 2018, , .		0
29	Three-Dimensional Registration for Handheld Profiling Systems Based on Multiple Shot Structured Light. Sensors, 2018, 18, 1146.	3.8	4
30	Background Registration-Based Adaptive Noise Filtering of LWIR/MWIR Imaging Sensors for UAV Applications. Sensors, 2018, 18, 60.	3.8	15
31	Contact Position Estimation Algorithm using Image-based Areal Touch Sensor based on Artificial Neural Network Prediction. Journal of the Institute of Industrial Applications Engineers, 2018, 6, 100-106.	0.2	1
32	Survey on zoom-lens calibration methods and techniques. Machine Vision and Applications, 2017, 28, 803-818.	2.7	12
33	Multiview registration-based handheld 3D profiling system using visual navigation and structured light. International Journal of Optomechatronics, 2017, 11, 1-14.	6.6	6
34	Anti-saturation and contrast enhancement technique using interlaced histogram equalization (IHE) for improving target detection performance of EO/IR images. , 2017, , .		6
35	Three-dimensional sensing methodology combining stereo vision and phase-measuring profilometry based on dynamic programming. Optical Engineering, 2017, 56, 1.	1.0	17
36	X-ray and optical stereo-based 3D sensor fusion system for image-guided neurosurgery. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 529-541.	2.8	5

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37	Selective attentional point-tracking through a head-mounted stereo gaze tracker based on trinocular epipolar geometry. , 2015, , .		3
38	Optical coordinate tracking system using afocal optics for image-guided surgery. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 231-241.	2.8	5
39	Attitude tracking using an integrated inertial and optical navigation system for hand-held surgical instruments. , 2014, , .		2
40	An Iterative Actuator Calibration Method for Accurate N-Bucket Phase-Shifting in Phase Measuring Profilometry: Experiments. , 2014, , .		1
41	Adaptive 3D sensing system based on variable magnification using stereo vision and structured light. Optics and Lasers in Engineering, 2014, 55, 113-127.	3.8	31
42	Circle Fitting to Overcome Vignetting Effect of Afocal Tracking System. , 2014, , .		0
43	Coordinates tracking and augmented reality system using bipolar X-ray fluoroscopy and stereo vision for image-guided neurosurgery. , 2013, , .		1
44	Path planning for micro-part assembly by using active stereo vision with a rotational mirror. Sensors and Actuators A: Physical, 2013, 193, 201-212.	4.1	14
45	Extended smart metersâ€based remote detection method for illegal electricity usage. IET Generation, Transmission and Distribution, 2013, 7, 1332-1343.	2.5	20
46	Head-mounted binocular gaze tracker as a human-robot interfacing device. , 2013, , .		1
47	3D auto-calibration method for head-mounted binocular gaze tracker as human-robot interface. , 2013, , .		1
48	A high-speed whitelight scanning interferometer using On-The-Fly imaging and parallel processing. , 2012, , .		0
49	A parallel mode confocal system using micro-lens and pinhole array in dual microscope configuration. , 2012, , .		0
50	A Single-Lens Multi-Sensor Imaging System for 3-D Shape Inspection with a Wide Field of View. International Journal of Optomechatronics, 2012, 6, 350-365.	6.6	1
51	Multiple optical system for matching coordinate system of neurosurgical robot. , 2012, , .		3
52	Head-mounted binocular gaze detection for selective visual recognition systems. Sensors and Actuators A: Physical, 2012, 187, 29-36.	4.1	21
53	Partial feedback linearization control of overhead cranes with varying cable lengths. International Journal of Precision Engineering and Manufacturing, 2012, 13, 501-507.	2.2	75
54	Development of alignment inspection system for ball grid array packaging. , 2010, , .		0

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55	Smart wearable robot glasses for human visual augmentation based on human intention and scene understanding. , 2010, , .		2
56	An automatic optical inspection system for inspection of CMOS compact camera module assembly. International Journal of Precision Engineering and Manufacturing, 2009, 10, 67-72.	2.2	13
57	Depth of field extension using variable annular pupil. , 2009, , .		2
58	Horizontal scanning interferometric system for wafer bump inspection of semiconductor packaging process. , 2009, , .		0
59	Shadow-Free Moire Interferometer with Dual Projection for In-Line Inspection of Light Emitting Diodes. International Journal of Optomechatronics, 2007, 1, 404-424.	6.6	6