Min-Young Kim

List of Publications by Year
in descending order

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	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
2	Single shot laser speckle based 3D acquisition system for medical applications. Optics and Lasers in Engineering, 2018, 105, 43-53.	3.8	49
3	V-RBNN Based Small Drone Detection in Augmented Datasets for 3D LADAR System. Sensors, 2018, 18, 3825.	3.8	38
4	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
5	Automatic segmentation of mitochondria and endolysosomes in volumetric electron microscopy data. Computers in Biology and Medicine, 2020, 119, 103693.	7.0	27
6	A sensor fusion system with thermal infrared camera and LiDAR for autonomous vehicles and deep learning based object detection. ICT Express, 2023, 9, 222-227.	4.8	22
7	Head-mounted binocular gaze detection for selective visual recognition systems. Sensors and Actuators A: Physical, 2012, 187, 29-36.	4.1	21
8	Extended smart metersâ€based remote detection method for illegal electricity usage. IET Generation, Transmission and Distribution, 2013, 7, 1332-1343.	2.5	20
9	Multichannel Object Detection for Detecting Suspected Trees With Pine Wilt Disease Using Multispectral Drone Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 8350-8358.	4.9	18
10	Three-dimensional sensing methodology combining stereo vision and phase-measuring profilometry based on dynamic programming. Optical Engineering, 2017, 56, 1.	1.0	17
11	Background Registration-Based Adaptive Noise Filtering of LWIR/MWIR Imaging Sensors for UAV Applications. Sensors, 2018, 18, 60.	3.8	15
12	Resolution-Enhancement for an Integral Imaging Microscopy Using Deep Learning. IEEE Photonics Journal, 2019, 11, 1-12.	2.0	15
13	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
14	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
15	Deep learning based 3D defect detection system using photometric stereo illumination. , 2019, , .		13
16	Survey on zoom-lens calibration methods and techniques. Machine Vision and Applications, 2017, 28, 803-818.	2.7	12
17	High-density single shot 3D sensing using adaptable speckle projection system with varying preprocessing. Optics and Lasers in Engineering, 2021, 136, 106312.	3.8	10
18	Small Traffic Sign Detection in Big Images: Searching Needle in a Hay. IEEE Access, 2022, 10, 18667-18680.	4.2	10

#	Article	IF	Citations
19	Advanced Three-Dimensional Visualization System for an Integral Imaging Microscope Using a Fully Convolutional Depth Estimation Network. IEEE Photonics Journal, 2020, 12, 1-14.	2.0	9
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	Machine Learning-based Automatic Optical Inspection System with Multimodal Optical Image Fusion Network. International Journal of Control, Automation and Systems, 2021, 19, 3503-3510.	2.7	7
22	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
23	Multiview registration-based handheld 3D profiling system using visual navigation and structured light. International Journal of Optomechatronics, 2017, 11, 1-14.	6.6	6
24	Anti-saturation and contrast enhancement technique using interlaced histogram equalization (IHE) for improving target detection performance of EO/IR images. , 2017, , .		6
25	Residual Forward-Subtracted U-Shaped Network for Dynamic and Static Image Restoration. IEEE Access, 2020, 8, 145401-145412.	4.2	6
26	Advanced visualization using image super-resolution method for three-dimensional mobile system. Optics Communications, 2021, 480, 126494.	2.1	6
27	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
28	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
29	3D Contact Position Estimation of Image-Based Areal Soft Tactile Sensor with Printed Array Markers and Image Sensors. Sensors, 2020, 20, 3796.	3.8	5
30	Global Motion-Aware Robust Visual Object Tracking for Electro Optical Targeting Systems. Sensors, 2020, 20, 566.	3.8	5
31	Three-Dimensional Registration for Handheld Profiling Systems Based on Multiple Shot Structured Light. Sensors, 2018, 18, 1146.	3.8	4
32	Ambient Environment Recognition Algorithm Fusing Vision and LiDAR Sensors for Robust Multi-channel V2X System. , 2019, , .		4
33	A Sensor Fusion System with Thermal Infrared Camera and LiDAR for Autonomous Vehicles: Its Calibration and Application. , 2021, , .		4
34	Usage of IR Sensors in the HVAC Systems, Vehicle and Manufacturing Industries: A Review. IEEE Sensors Journal, 2022, 22, 9164-9176.	4.7	4
35	Multiple optical system for matching coordinate system of neurosurgical robot. , 2012, , .		3
36	Selective attentional point-tracking through a head-mounted stereo gaze tracker based on trinocular epipolar geometry. , 2015, , .		3

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37	Depth of field extension using variable annular pupil. , 2009, , .		2
38	Smart wearable robot glasses for human visual augmentation based on human intention and scene understanding. , 2010, , .		2
39	Attitude tracking using an integrated inertial and optical navigation system for hand-held surgical instruments. , 2014, , .		2
40	Multi-Saliency Map and Machine Learning Based Human Detection for the Embedded Top-View Imaging System. IEEE Access, 2021, 9, 70671-70682.	4.2	2
41	Multi-scale synergy approach for real-time semantic segmentation. , 2022, , .		2
42	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
43	Coordinates tracking and augmented reality system using bipolar X-ray fluoroscopy and stereo vision for image-guided neurosurgery. , 2013, , .		1
44	Head-mounted binocular gaze tracker as a human-robot interfacing device. , 2013, , .		1
45	3D auto-calibration method for head-mounted binocular gaze tracker as human-robot interface. , 2013, , .		1
46	An Iterative Actuator Calibration Method for Accurate N-Bucket Phase-Shifting in Phase Measuring Profilometry: Experiments. , 2014, , .		1
47	Automatic Optical Inspection System with Telecentric Optics and Phase-measuring Profilometry for Highly Accurate Localization of Electronic Packages. International Journal of Control, Automation and Systems, 2020, 18, 2120-2130.	2.7	1
48	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
49	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
50	Horizontal scanning interferometric system for wafer bump inspection of semiconductor packaging process. , 2009, , .		0
51	Development of alignment inspection system for ball grid array packaging. , 2010, , .		0
52	A high-speed whitelight scanning interferometer using On-The-Fly imaging and parallel processing. , 2012, , .		0
53	A parallel mode confocal system using micro-lens and pinhole array in dual microscope configuration. , 2012, , .		0
54	Circle Fitting to Overcome Vignetting Effect of Afocal Tracking System. , 2014, , .		0

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55	Multiple RGB-D Camera-based User Intent Position and Object Estimation. , 2018, , .		0
56	Positional estimation of invisible drone using acoustic array with A-shaped neural network. , 2021, , .		0
57	Supervised Learning Based Peripheral Vision System for Immersive Visual Experiences for Extended Display. Applied Sciences (Switzerland), 2021, 11, 4726.	2.5	0
58	Comparative analysis of laser and simulated speckle pattern for single shot 3D reconstruction. Applied Physics Letters, 2021, 119, 131108.	3.3	0
59	High-Quality 3D Display for Integral Imaging Microscope Using Deep Learning Depth Estimation Algorithm. , 2020, , .		0