Kang Ryoung Park

List of Publications by Citations

165 papers	3,074 citations	30 h-index	45 g-index
170 ext. papers	4,130 ext. citations	3.7 avg, IF	5.99 L-index

#	Paper	IF	Citations
165	Finger vein recognition using minutia-based alignment and local binary pattern-based feature extraction. *International Journal of Imaging Systems and Technology*, **2009**, 19, 179-186	2.5	160
164	Person Recognition System Based on a Combination of Body Images from Visible Light and Thermal Cameras. *Sensors*, **2017**, 17,	3.8	137
163	Detecting driver drowsiness using feature-level fusion and user-specific classification. *Expert Systems With Applications*, **2014**, 41, 1139-1152	7.8	97
162	Convolutional Neural Network-Based Finger-Vein Recognition Using NIR Image Sensors. *Sensors*, **2017**, 17,	3.8	82
161	Real-Time Gaze Estimator Based on Driver's Head Orientation for Forward Collision Warning System. *IEEE Transactions on Intelligent Transportation Systems*, **2011**, 12, 254-267	6.1	80
160	Image restoration of skin scattering and optical blurring for finger vein recognition. *Optics and Lasers in Engineering*, **2011**, 49, 816-828	4.6	69
159	A robust eyelash detection based on iris focus assessment. *Pattern Recognition Letters*, **2007**, 28, 1630-1639	4.7	61
158	IrisDenseNet: Robust Iris Segmentation Using Densely Connected Fully Convolutional Networks in the Images by Visible Light and Near-Infrared Light Camera Sensors. *Sensors*, **2018**, 18,	3.8	60
157	A brain-computer interface method combined with eye tracking for 3D interaction. *Journal of Neuroscience Methods*, **2010**, 190, 289-98	3	57
156	The comparative measurements of eyestrain caused by 2D and 3D displays. *IEEE Transactions on Consumer Electronics*, **2010**, 56, 1677-1683	4.8	55
155	Deep Learning-Based Gaze Detection System for Automobile Drivers Using a NIR Camera Sensor. *Sensors*, **2018**, 18,	3.8	54
154	Combining Deep and Handcrafted Image Features for Presentation Attack Detection in Face Recognition Systems Using Visible-Light Camera Sensors. *Sensors*, **2018**, 18,	3.8	52
153	Face liveness detection based on texture and frequency analyses **2012**,		52
152	Multimodal Biometric Recognition Based on Convolutional Neural Network by the Fusion of Finger-Vein and Finger Shape Using Near-Infrared (NIR) Camera Sensor. *Sensors*, **2018**, 18,	3.8	51
151	New iris recognition method for noisy iris images. *Pattern Recognition Letters*, **2012**, 33, 991-999	4.7	51
150	3D gaze tracking method using Purkinje images on eye optical model and pupil. *Optics and Lasers in Engineering*, **2012**, 50, 736-751	4.6	48
149	Effective Diagnosis and Treatment through Content-Based Medical Image Retrieval (CBMIR) by Using Artificial Intelligence. *Journal of Clinical Medicine*, **2019**, 8,	5.1	44

130	Artificial Intelligence-Based Classification of Multiple Gastrointestinal Diseases Using Endoscopy Videos for Clinical Diagnosis. *Journal of Clinical Medicine*, **2019**, 8,	5.1	26
129	LightDenseYOLO: A Fast and Accurate Marker Tracker for Autonomous UAV Landing by Visible Light Camera Sensor on Drone. *Sensors*, **2018**, 18,	3.8	25
128	A robust gaze detection method by compensating for facial movements based on corneal specularities. *Pattern Recognition Letters*, **2008**, 29, 1474-1485	4.7	25
127	A robust eye gaze tracking method based on a virtual eyeball model. *Machine Vision and Applications*, **2009**, 20, 319-337	2.8	24
126	Gender Recognition from Human-Body Images Using Visible-Light and Thermal Camera Videos Based on a Convolutional Neural Network for Image Feature Extraction. *Sensors*, **2017**, 17,	3.8	23
125	Road Lane Detection Robust to Shadows Based on a Fuzzy System Using a Visible Light Camera Sensor. *Sensors*, **2017**, 17,	3.8	23
124	Road Lane Detection by Discriminating Dashed and Solid Road Lanes Using a Visible Light Camera Sensor. *Sensors*, **2016**, 16,	3.8	23
123	Deep Learning-Based Enhanced Presentation Attack Detection for Iris Recognition by Combining Features from Local and Global Regions Based on NIR Camera Sensor. *Sensors*, **2018**, 18,	3.8	23
122	A Survey on Banknote Recognition Methods by Various Sensors. *Sensors*, **2017**, 17,	3.8	22
121	Convolutional Neural Network-Based Classification of Driver's Emotion during Aggressive and Smooth Driving Using Multi-Modal Camera Sensors. *Sensors*, **2018**, 18,	3.8	22
120	Artificial Intelligence-Based Thyroid Nodule Classification Using Information from Spatial and Frequency Domains. *Journal of Clinical Medicine*, **2019**, 8,	5.1	22
119	Gait-Based Human Identification by Combining Shallow Convolutional Neural Network-Stacked Long Short-Term Memory and Deep Convolutional Neural Network. *IEEE Access*, **2018**, 6, 63164-63186	3.5	22
118	Remote Marker-Based Tracking for UAV Landing Using Visible-Light Camera Sensor. *Sensors*, **2017**, 17,	3.8	21
117	Spoof Detection for Finger-Vein Recognition System Using NIR Camera. *Sensors*, **2017**, 17,	3.8	21
116	Remote gaze tracking system on a large display. *Sensors*, **2013**, 13, 13439-63	3.8	21
115	Face Detection in Nighttime Images Using Visible-Light Camera Sensors with Two-Step Faster Region-Based Convolutional Neural Network. *Sensors*, **2018**, 18,	3.8	21
114	Person Re-Identification Between Visible and Thermal Camera Images Based on Deep Residual CNN Using Single Input. *IEEE Access*, **2019**, 7, 57972-57984	3.5	20
113	Body-movement-based human identification using convolutional neural network. *Expert Systems With Applications*, **2018**, 101, 56-77	7.8	20

112	Convolutional Neural Network-Based Shadow Detection in Images Using Visible Light Camera Sensor. *Sensors*, **2018**, 18,	3.8	20
111	Evaluation of Fear Using Nonintrusive Measurement of Multimodal Sensors. *Sensors*, **2015**, 15, 17507-33	3.8	20
110	Recognition of Damaged Arrow-Road Markings by Visible Light Camera Sensor Based on Convolutional Neural Network. *Sensors*, **2016**, 16,	3.8	20
109	Nonintrusive Finger-Vein Recognition System Using NIR Image Sensor and Accuracy Analyses According to Various Factors. *Sensors*, **2015**, 15, 16866-94	3.8	19
108	Comparative study of human age estimation with or without preclassification of gender and facial expression. *Scientific World Journal, The*, **2014**, 2014, 905269	2.2	19
107	Fake iris detection based on 3D structure of iris pattern. *International Journal of Imaging Systems and Technology*, **2010**, 20, 162-166	2.5	19
106	Artificial Intelligence-Based Diagnosis of Cardiac and Related Diseases. *Journal of Clinical Medicine*, **2020**, 9,	5.1	18
105	Face recognition system for set-top box-based intelligent TV. *Sensors*, **2014**, 14, 21726-49	3.8	18
104	Quantitative measurement of eyestrain on 3D stereoscopic display considering the eye foveation model and edge information. *Sensors*, **2014**, 14, 8577-604	3.8	18
103	Enhanced Detection and Recognition of Road Markings Based on Adaptive Region of Interest and Deep Learning. *IEEE Access*, **2019**, 7, 109817-109832	3.5	17
102	Human Detection Based on the Generation of a Background Image and Fuzzy System by Using a Thermal Camera. *Sensors*, **2016**, 16, 453	3.8	17
101	OR-Skip-Net: Outer residual skip network for skin segmentation in non-ideal situations. *Expert Systems With Applications*, **2020**, 141, 112922	7.8	17
100	Deep Learning-Based Super-Resolution Reconstruction and Marker Detection for Drone Landing. *IEEE Access*, **2019**, 7, 61639-61655	3.5	16
99	Deep Residual CNN-Based Ocular Recognition Based on Rough Pupil Detection in the Images by NIR Camera Sensor. *Sensors*, **2019**, 19,	3.8	16
98	Body-Based Gender Recognition Using Images from Visible and Thermal Cameras. *Sensors*, **2016**, 16, 156	3.8	16
97	New computer interface combining gaze tracking and brainwave measurements. *IEEE Transactions on Consumer Electronics*, **2011**, 57, 1646-1651	4.8	15
96	Robust Behavior Recognition in Intelligent Surveillance Environments. *Sensors*, **2016**, 16,	3.8	15
95	Action Recognition From Thermal Videos. *IEEE Access*, **2019**, 7, 103893-103917	3.5	14

94	Human Age Estimation Method Robust to Camera Sensor and/or Face Movement. *Sensors*, **2015**, 15, 21898-930	3.8	14
93	Presentation Attack Detection for Iris Recognition System Using NIR Camera Sensor. *Sensors*, **2018**, 18,	3.8	13
92	Pedestrian Detection Based on Adaptive Selection of Visible Light or Far-Infrared Light Camera Image by Fuzzy Inference System and Convolutional Neural Network-Based Verification. *Sensors*, **2017**, 17,	3.8	13
91	A novel gaze tracking method based on the generation of virtual calibration points. *Sensors*, **2013**, 13, 10802-22	3.8	13
90	Deep RetinaNet-Based Detection and Classification of Road Markings by Visible Light Camera Sensors. *Sensors*, **2019**, 19,	3.8	12
89	A comparative study of facial appearance modeling methods for active appearance models. *Pattern Recognition Letters*, **2009**, 30, 1335-1346	4.7	12
88	CNN-Based Multimodal Human Recognition in Surveillance Environments. *Sensors*, **2018**, 18,	3.8	12
87	Segmentation method of eye region based on fuzzy logic system for classifying open and closed eyes. *Optical Engineering*, **2015**, 54, 033103	1.1	11
86	Noisy Ocular Recognition Based on Three Convolutional Neural Networks. *Sensors*, **2017**, 17,	3.8	11
85	Image Quality Enhancement Using the Direction and Thickness of Vein Lines for Finger-Vein Recognition. *International Journal of Advanced Robotic Systems*, **2012**, 9, 154	1.4	11
84	Enhanced Gender Recognition System Using an Improved Histogram of Oriented Gradient (HOG) Feature from Quality Assessment of Visible Light and Thermal Images of the Human Body. *Sensors*, **2016**, 16,	3.8	11
83	. *IEEE Access*, **2020**, 8, 96748-96766	3.5	10
82	Multi-National Banknote Classification Based on Visible-light Line Sensor and Convolutional Neural Network. *Sensors*, **2017**, 17,	3.8	10
81	. *IEEE Access*, **2019**, 7, 93448-93461	3.5	10
80	Banknote recognition based on optimization of discriminative regions by genetic algorithm with one-dimensional visible-light line sensor. *Pattern Recognition*, **2017**, 72, 27-43	7.7	10
79	A High Performance Banknote Recognition System Based on a One-Dimensional Visible Light Line Sensor. *Sensors*, **2015**, 15, 14093-115	3.8	10
78	Compensation Method of Natural Head Movement for Gaze Tracking System Using an Ultrasonic Sensor for Distance Measurement. *Sensors*, **2016**, 16,	3.8	10
77	Periocular-based biometrics robust to eye rotation based on polar coordinates. *Multimedia Tools and Applications*, **2017**, 76, 11177-11197	2.5	9

76	Deep Learning-Based Fake-Banknote Detection for the Visually Impaired People Using Visible-Light Images Captured by Smartphone Cameras. *IEEE Access*, **2020**, 8, 63144-63161	3.5	9
75	Nonwearable gaze tracking system for controlling home appliance. *Scientific World Journal, The*, **2014**, 2014, 303670	2.2	9
74	Robust Eye and Pupil Detection Method for Gaze Tracking. *International Journal of Advanced Robotic Systems*, **2013**, 10, 98	1.4	9
73	Robust query-by-singing/humming system against background noise environments. *IEEE Transactions on Consumer Electronics*, **2011**, 57, 720-725	4.8	9
72	Automated Diagnosis of Various Gastrointestinal Lesions Using a Deep Learning-Based Classification and Retrieval Framework With a Large Endoscopic Database: Model Development and Validation. *Journal of Medical Internet Research*, **2020**, 22, e18563	7.6	9
71	Enhanced Image-Based Endoscopic Pathological Site Classification Using an Ensemble of Deep Learning Models. *Sensors*, **2020**, 20,	3.8	9
70	Age Estimation by Super-Resolution Reconstruction Based on Adversarial Networks. *IEEE Access*, **2020**, 8, 17103-17120	3.5	8
69	Gaze tracking system for user wearing glasses. *Sensors*, **2014**, 14, 2110-34	3.8	8
68	Deep Feature-Based Three-Stage Detection of Banknotes and Coins for Assisting Visually Impaired People. *IEEE Access*, **2020**, 8, 184598-184613	3.5	8
67	Visible-Light Camera Sensor-Based Presentation Attack Detection for Face Recognition by Combining Spatial and Temporal Information. *Sensors*, **2019**, 19,	3.8	7
66	Region-Based Removal of Thermal Reflection Using Pruned Fully Convolutional Network. *IEEE Access*, **2020**, 8, 75741-75760	3.5	7
65	Semantic Segmentation With Low Light Images by Modified CycleGAN-Based Image Enhancement. *IEEE Access*, **2020**, 8, 93561-93585	3.5	7
64	Recognizing Banknote Fitness with a Visible Light One Dimensional Line Image Sensor. *Sensors*, **2015**, 15, 21016-32	3.8	7
63	A study on restoration of iris images with motion-and-optical blur on mobile iris recognition devices. *International Journal of Imaging Systems and Technology*, **2009**, 19, 323-331	2.5	7
62	A novel portable iris recognition system and usability evaluation. *International Journal of Control, Automation and Systems*, **2010**, 8, 91-98	2.9	7
61	Efficient Banknote Recognition Based on Selection of Discriminative Regions with One-Dimensional Visible-Light Line Sensor. *Sensors*, **2016**, 16,	3.8	7
60	Recognition of Banknote Fitness Based on a Fuzzy System Using Visible Light Reflection and Near-infrared Light Transmission Images. *Sensors*, **2016**, 16,	3.8	7
59	A Study on the Elimination of Thermal Reflections. *IEEE Access*, **2019**, 7, 174597-174611	3.5	7

58	Light-weighted ensemble network with multilevel activation visualization for robust diagnosis of COVID19 pneumonia from large-scale chest radiographic database. *Applied Soft Computing Journal*, **2021**, 108, 107490	7.5	7
57	Deep Learning-Based Multinational Banknote Type and Fitness Classification with the Combined Images by Visible-Light Reflection and Infrared-Light Transmission Image Sensors. *Sensors*, **2019**, 19,	3.8	6
56	Deep Learning-Based Detection of Pigment Signs for Analysis and Diagnosis of Retinitis Pigmentosa. *Sensors*, **2020**, 20,	3.8	6
55	. *IEEE Access*, **2020**, 8, 16281-16301	3.5	6
54	Fuzzy System-Based Target Selection for a NIR Camera-Based Gaze Tracker. *Sensors*, **2017**, 17,	3.8	6
53	New Fuzzy-Based Retinex Method for the Illumination Normalization of Face Recognition. *International Journal of Advanced Robotic Systems*, **2012**, 9, 103	1.4	6
52	Thermal Image Reconstruction Using Deep Learning. *IEEE Access*, **2020**, 8, 126839-126858	3.5	6
51	SlimDeblurGAN-Based Motion Deblurring and Marker Detection for Autonomous Drone Landing. *Sensors*, **2020**, 20,	3.8	6
50	Multilevel Deep-Aggregated Boosted Network to Recognize COVID-19 Infection from Large-Scale Heterogeneous Radiographic Data. *IEEE Journal of Biomedical and Health Informatics*, **2021**, 25, 1881-1891	7.2	6
49	Enhanced Cycle Generative Adversarial Network for Generating Face Images of Untrained Races and Ages for Age Estimation. *IEEE Access*, **2021**, 9, 6087-6112	3.5	6
48	Deep Residual Network-Based Recognition of Finger Wrinkles Using Smartphone Camera. *IEEE Access*, **2019**, 7, 71270-71285	3.5	5
47	Deep Learning-Based Banknote Fitness Classification Using the Reflection Images by a Visible-Light One-Dimensional Line Image Sensor. *Sensors*, **2018**, 18,	3.8	5
46	Multimodal Camera-Based Gender Recognition Using Human-Body Image With Two-Step Reconstruction Network. *IEEE Access*, **2019**, 7, 104025-104044	3.5	5
45	Comprehensive Computer-Aided Decision Support Framework to Diagnose Tuberculosis From Chest X-Ray Images: Data Mining Study. *JMIR Medical Informatics*, **2020**, 8, e21790	3.6	5
44	Accurate Segmentation of Nuclear Regions with Multi-Organ Histopathology Images Using Artificial Intelligence for Cancer Diagnosis in Personalized Medicine. *Journal of Personalized Medicine*, **2021**, 11,	3.6	5
43	Empirical Study on Designing of Gaze Tracking Camera Based on the Information of User's Head Movement. *Sensors*, **2016**, 16,	3.8	5
42	A new gaze estimation method considering external light. *Sensors*, **2015**, 15, 5935-81	3.8	4
41	A Fuzzy-Based Fusion Method of Multimodal Sensor-Based Measurements for the Quantitative Evaluation of Eye Fatigue on 3D Displays. *Sensors*, **2015**, 15, 10825-51	3.8	4

40	ESSN: Enhanced Semantic Segmentation Network by Residual Concatenation of Feature Maps. *IEEE Access*, **2020**, 8, 21363-21379	3.5	4
39	A new query-by-humming system based on the score level fusion of two classifiers. *International Journal of Communication Systems*, **2012**, 25, 717-733	1.7	4
38	Driver eye-based gaze tracking system by one-point calibration. *Multimedia Tools and Applications*, **2019**, 78, 7155-7179	2.5	4
37	Action Recognition From Thermal Videos Using Joint and Skeleton Information. *IEEE Access*, **2021**, 9, 11716-11733	3.5	4
36	. *IEEE Access*, **2018**, 6, 57291-57310	3.5	4
35	Detecting retinal vasculature as a key biomarker for deep Learning-based intelligent screening and analysis of diabetic and hypertensive retinopathy. *Expert Systems With Applications*, **2022**, 200, 117009	7.8	4
34	Presentation Attack Face Image Generation Based on a Deep Generative Adversarial Network. *Sensors*, **2020**, 20,	3.8	3
33	Object Recognition and Selection Method by Gaze Tracking and SURF Algorithm **2011**,		3
32	Artificial Intelligence-Based Recognition of Different Types of Shoulder Implants in X-ray Scans Based on Dense Residual Ensemble-Network for Personalized Medicine. *Journal of Personalized Medicine*, **2021**, 11,	3.6	3
31	Estimation of Gaze Detection Accuracy Using the Calibration Information-Based Fuzzy System. *Sensors*, **2016**, 16,	3.8	3
30	. *IEEE Access*, **2019**, 7, 163461-163477	3.5	3
29	. *IEEE Access*, **2021**, 9, 6296-6324	3.5	3
28	Enhanced Iris Recognition Method by Generative Adversarial Network-Based Image Reconstruction. *IEEE Access*, **2021**, 9, 10120-10135	3.5	3
27	Deep Learning-Based Thermal Image Reconstruction and Object Detection. *IEEE Access*, **2021**, 9, 5951-5971	3.5	3
26	. *IEEE Access*, **2020**, 8, 49857-49872	3.5	2
25	Gaze detection based on head pose estimation in smart TV **2013**,		2
24	Domain-Adaptive Artificial Intelligence-Based Model for Personalized Diagnosis of Trivial Lesions Related to COVID-19 in Chest Computed Tomography Scans. *Journal of Personalized Medicine*, **2021**, 11,	3.6	2
23	Face and Body-Based Human Recognition by GAN-Based Blur Restoration. *Sensors*, **2020**, 20,	3.8	2

22	CycleGAN-Based Deblurring for Gaze Tracking in Vehicle Environments. *IEEE Access*, **2020**, 8, 137418-137437	3.5	2
21	Image Region Prediction from Thermal Videos Based on Image Prediction Generative Adversarial Network. *Mathematics*, **2021**, 9, 1053	2.3	2
20	Restoration of Motion Blurred Image by Modified DeblurGAN for Enhancing the Accuracies of Finger-Vein Recognition. *Sensors*, **2021**, 21,	3.8	2
19	Discriminating between intentional and unintentional gaze fixation using multimodal-based fuzzy logic algorithm for gaze tracking system with NIR camera sensor. *Optical Engineering*, **2016**, 55, 063109	1.1	2
18	Finger-Vein Recognition Using Heterogeneous Databases by Domain Adaption Based on a Cycle-Consistent Adversarial Network. *Sensors*, **2021**, 21,	3.8	2
17	GRA-GAN: Generative adversarial network for image style transfer of Gender, Race, and age. *Expert Systems With Applications*, **2022**, 198, 116792	7.8	2
16	Diabetic and Hypertensive Retinopathy Screening in Fundus Images Using Artificially Intelligent Shallow Architectures.. *Journal of Personalized Medicine*, **2021**, 12,	3.6	2
15	DSRD-Net: Dual-stream residual dense network for semantic segmentation of instruments in robot-assisted surgery. *Expert Systems With Applications*, **2022**, 202, 117420	7.8	2
14	Deep features aggregation-based joint segmentation of cytoplasm and nuclei in white blood cells. *IEEE Journal of Biomedical and Health Informatics*, **2022**, 1-1	7.2	2
13	New system for tracking a device for diagnosing scalp skin. *Sensors*, **2014**, 14, 6516-34	3.8	1
12	Detecting Blastocyst Components by Artificial Intelligence for Human Embryological Analysis to Improve Success Rate of In Vitro Fertilization.. *Journal of Personalized Medicine*, **2022**, 12,	3.6	1
11	Artificial Intelligence-Based Solution in Personalized Computer-Aided Arthroscopy of Shoulder Prostheses.. *Journal of Personalized Medicine*, **2022**, 12,	3.6	1
10	Fast Query-by-Singing/Humming System That Combines Linear Scaling and Quantized Dynamic Time Warping Algorithm. *International Journal of Distributed Sensor Networks*, **2015**, 11, 176091	1.7	1
9	Semantic Segmentation by Multi-Scale Feature Extraction Based on Grouped Dilated Convolution Module. *Mathematics*, **2021**, 9, 947	2.3	1
8	Fuzzy-based estimation of continuous Z-distances and discrete directions of home appliances for NIR camera-based gaze tracking system. *Multimedia Tools and Applications*, **2018**, 77, 11925-11955	2.5	1
7	Deep Learning-Based Detection of Fake Multinational Banknotes in a Cross-Dataset Environment Utilizing Smartphone Cameras for Assisting Visually Impaired Individuals. *Mathematics*, **2022**, 10, 1616	2.3	1
6	Segmenting Retinal Vessels Using a Shallow Segmentation Network to Aid Ophthalmic Analysis. *Mathematics*, **2022**, 10, 1536	2.3	1
5	DMDF-Net: Dual multiscale dilated fusion network for accurate segmentation of lesions related to COVID-19 in lung radiographic scans.. *Expert Systems With Applications*, **2022**, 202, 117360	7.8	1

List of Publications

4	Face Recognition Algorithm for Photographs and Viewed Sketch Matching Using Score-Level Fusion. *International Journal of Advanced Robotic Systems*, **2012**, 9, 80	1.4	0
3	Pedestrian Gender Recognition by Style Transfer of Visible-Light Image to Infrared-Light Image Based on an Attention-Guided Generative Adversarial Network. *Mathematics*, **2021**, 9, 2535	2.3	0
2	Enlargement of the Field of View Based on Image Region Prediction Using Thermal Videos. *Mathematics*, **2021**, 9, 2379	2.3	0
1	AS-RIG: Adaptive Selection of Reconstructed Input by Generator or Interpolation for Person Re-Identification in Cross-Modality Visible and Thermal Images. *IEEE Access*, **2021**, 9, 12055-12066	3.5	0