Tae-Seong Kim

List of Publications by Year
in descending order

46 papers	2,257 citations	471477 17 h-index	377849 34 g-index
47 all docs	47 docs citations	47 times ranked	2292 citing authors

#	Article	IF	Citations
1	Skin lesion segmentation in dermoscopy images via deep full resolution convolutional networks. Computer Methods and Programs in Biomedicine, 2018, 162, 221-231.	4.7	309
2	Simultaneous detection and classification of breast masses in digital mammograms via a deep learning YOLO-based CAD system. Computer Methods and Programs in Biomedicine, 2018, 157, 85-94.	4.7	299
3	A fully integrated computer-aided diagnosis system for digital X-ray mammograms via deep learning detection, segmentation, and classification. International Journal of Medical Informatics, 2018, 117, 44-54.	3.3	281
4	Multiple skin lesions diagnostics via integrated deep convolutional networks for segmentation and classification. Computer Methods and Programs in Biomedicine, 2020, 190, 105351.	4.7	195
5	Evaluation of deep learning detection and classification towards computer-aided diagnosis of breast lesions in digital X-ray mammograms. Computer Methods and Programs in Biomedicine, 2020, 196, 105584.	4.7	155
6	Human Activity Recognition via Recognized Body Parts of Human Depth Silhouettes for Residents Monitoring Services at Smart Home. Indoor and Built Environment, 2013, 22, 271-279.	2.8	141
7	An efficient word typing P300-BCI system using a modified T9 interface and random forest classifier. Computers in Biology and Medicine, 2015, 56, 30-36.	7.0	113
8	3-D hand motion tracking and gesture recognition using a data glove. , 2009, , .		96
9	An Automatic Computer-Aided Diagnosis System for Breast Cancer in Digital Mammograms via Deep Belief Network. Journal of Medical and Biological Engineering, 2018, 38, 443-456.	1.8	94
10	A single tri-axial accelerometer-based real-time personal life log system capable of human activity recognition and exercise information generation. Personal and Ubiquitous Computing, 2011, 15, 887-898.	2.8	78
11	Recognition of Human Home Activities via Depth Silhouettes and â„œ Transformation for Smart Homes. Indoor and Built Environment, 2012, 21, 184-190.	2.8	76
12	Deep Learning Computer-Aided Diagnosis for Breast Lesion in Digital Mammogram. Advances in Experimental Medicine and Biology, 2020, 1213, 59-72.	1.6	49
13	A P300-based brain computer interface system for words typing. Computers in Biology and Medicine, 2014, 45, 118-125.	7.0	38
14	Design study on photoacoustic probe to detect prostate cancer using 3D Monte Carlo simulation and finite element method. Biomedical Engineering Letters, 2014, 4, 250-257.	4.1	29
15	Synergistic combination of near-infrared irradiation and targeted gold nanoheaters for enhanced photothermal neural stimulation. Biomedical Optics Express, 2016, 7, 1614.	2.9	27
16	Hand Gesture Recognition Using Single Patchable Six-Axis Inertial Measurement Unit via Recurrent Neural Networks. Sensors, 2021, 21, 1404.	3.8	22
17	Prolonged stimulation with lowâ€intensity ultrasound induces delayed increases in spontaneous hippocampal culture spiking activity. Journal of Neuroscience Research, 2017, 95, 885-896.	2.9	20
18	Hand number gesture recognition using recognized hand parts in depth images. Multimedia Tools and Applications, 2016, 75, 1333-1348.	3.9	19

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19	Estimation of 3-D human body posture via co-registration of 3-D human model and sequential stereo information. Applied Intelligence, 2011, 35, 163-177.	5.3	18
20	An Indoor Human Activity Recognition System for Smart Home Using Local Binary Pattern Features with Hidden Markov Models. Indoor and Built Environment, 2013, 22, 289-298.	2.8	17
21	A P300 brain computer interface based intelligent home control system using a random forest classifier. , 2017, , .		16
22	The effect of tissue anisotropy on the radial and tangential components of the electric field in transcranial direct current stimulation. Medical and Biological Engineering and Computing, 2015, 53, 1085-1101.	2.8	15
23	Femur segmentation in DXA imaging using a machine learning decision tree. Journal of X-Ray Science and Technology, 2018, 26, 727-746.	1.0	15
24	Natural object manipulation using anthropomorphic robotic hand through deep reinforcement learning and deep grasping probability network. Applied Intelligence, 2021, 51, 1041-1055.	5.3	13
25	A novel P300-based BCI system for words typing. , 2013, , .		11
26	Real-time 3D human pose recovery from a single depth image using principal direction analysis. Applied Intelligence, 2014, 41, 473-486.	5.3	10
27	Denoising images of dual energy X-ray absorptiometry using non-local means filters. Journal of X-Ray Science and Technology, 2018, 26, 395-412.	1.0	10
28	A Deep Learning Model Integrating FrCN and Residual Convolutional Networks for Skin Lesion Segmentation and Classification. , 2019, , .		10
29	Influence of the anisotropic mechanical properties of the breast cancer on photoacoustic imaging. , 2014, , .		9
30	Rib suppression in frontal chest radiographs: A blind source separation approach. , 2007, , .		8
31	Depth video-based gait recognition for smart home using local directional pattern features and hidden Markov model. Indoor and Built Environment, 2014, 23, 133-140.	2.8	8
32	Object Manipulation with an Anthropomorphic Robotic Hand via Deep Reinforcement Learning with a Synergy Space of Natural Hand Poses. Sensors, 2021, 21, 5301.	3.8	8
33	Human activities recognition with a single writs IMU via a Variational Autoencoder and android deep recurrent neural nets. Computer Science and Information Systems, 2020, 17, 581-597.	1.0	8
34	A Spatiotemporal Robust Approach for Human Activity Recognition. International Journal of Advanced Robotic Systems, 2013, 10, 391.	2.1	6
35	An Integrated ARMA-Based Deep Autoencoder and GRU Classifier System for Enhanced Recognition of Daily Hand Activities. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, 2152006.	1.2	6
36	Real-Time Recognition of Daily Human Activities Using a Single Tri-Axial Accelerometer. , 2010, , .		5

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37	3-D body joint-specific HMM-based approach for human activity recognition from stereo posture image sequence. Multimedia Tools and Applications, 2015, 74, 11207-11222.	3.9	5
38	Trilateral convolutional neural network for 3D shape reconstruction of objects from a single depth view. IET Image Processing, 2019, 13, 2457-2466.	2.5	5
39	Automatic hip geometric feature extraction in DXA imaging using regional random forest. Journal of X-Ray Science and Technology, 2019, 27, 207-236.	1.0	4
40	Facial Image Retrieval through Compound Queries Using Constrained Independent Component Analysis. , 2007, , .		3
41	Forearm Motion Tracking with Estimating Joint Angles from Inertial Sensor Signals. , 2009, , .		2
42	Environment and Its Influence on Health and Demographics in South Korea. International Journal of Environmental Research and Public Health, 2016, 13, 183.	2.6	2
43	Fast 3-D human motion capturing from stereo data using Gaussian clusters. , 2010, , .		1
44	Three€dimensional shape reconstruction of objects from a single depth view using deep U€Net convolutional neural network with bottle€neck skip connections. IET Computer Vision, 2021, 15, 24-35.	2.0	1
45	Extraction and Mapping of Alpha Activity in EEG Signals Using Augmented ICA. , 2010, , .		0
46	3-D human pose recovery using nonrigid point set registration and body part tracking of depth data. Multimedia Systems, 2017, 23, 369-380.	4.7	0