

# Sungho Jo

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

1,498  
citations

471509

17  
h-index

361022

35  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1617  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Brain-Actuated Humanoid Robots: Asynchronous Direct Control Using an EEG-Based BCI. IEEE Transactions on Robotics, 2012, 28, 1131-1144.	10.3	213
2	A deep-learned skin sensor decoding the epicentral human motions. Nature Communications, 2020, 11, 2149.	12.8	148
3	Review of machine learning methods in soft robotics. PLoS ONE, 2021, 16, e0246102.	2.5	105
4	Use of Deep Learning for Characterization of Microfluidic Soft Sensors. IEEE Robotics and Automation Letters, 2018, 3, 873-880.	5.1	101
5	Quadcopter flight control using a low-cost hybrid interface with EEG-based classification and eye tracking. Computers in Biology and Medicine, 2014, 51, 82-92.	7.0	96
6	Deep Full-Body Motion Network for a Soft Wearable Motion Sensing Suit. IEEE/ASME Transactions on Mechatronics, 2019, 24, 56-66.	5.8	92
7	Eyes are faster than hands: A soft wearable robot learns user intention from the egocentric view. Science Robotics, 2019, 4, .	17.6	57
8	A novel hybrid auditory BCI paradigm combining ASSR and P300. Journal of Neuroscience Methods, 2017, 279, 44-51.	2.5	55
9	Observing Actions Through Immersive Virtual Reality Enhances Motor Imagery Training. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1614-1622.	4.9	52
10	Toward more intuitive brain-computer interfacing: classification of binary covert intentions using functional near-infrared spectroscopy. Journal of Biomedical Optics, 2016, 21, 091303.	2.6	48
11	Deep Physiological Affect Network for the Recognition of Human Emotions. IEEE Transactions on Affective Computing, 2018, , 1-1.	8.3	47
12	Online inspection path planning for autonomous 3D modeling using a micro-aerial vehicle. , 2017, , .		45
13	Improving performance in motor imagery BCI-based control applications via virtually embodied feedback. Computers in Biology and Medicine, 2020, 127, 104079.	7.0	37
14	Boundary-enhanced supervoxel segmentation for sparse outdoor LiDAR data. Electronics Letters, 2014, 50, 1917-1919.	1.0	27
15	Separation-free bacterial identification in arbitrary media via deep neural network-based SERS analysis. Biosensors and Bioelectronics, 2022, 202, 113991.	10.1	27
16	Incremental Online Learning of Robot Behaviors From Selected Multiple Kinesthetic Teaching Trials. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 730-740.	9.3	25
17	Semi-Supervised Gait Generation With Two Microfluidic Soft Sensors. IEEE Robotics and Automation Letters, 2019, 4, 2501-2507.	5.1	24
18	Online coverage and inspection planning for 3D modeling. Autonomous Robots, 2020, 44, 1431-1450.	4.8	20

#	ARTICLE	IF	CITATIONS
19	Speech-imagery-based brain-computer interface system using ear-EEG. Journal of Neural Engineering, 2021, 18, 016023.	3.5	19
20	Brain-actuated humanoid robot navigation control using asynchronous Brain-Computer Interface. , 2011, , .		18
21	Two-Factor Authentication System Using P300 Response to a Sequence of Human Photographs. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 1178-1185.	9.3	18
22	Learning-Based Fingertip Force Estimation for Soft Wearable Hand Robot With Tendon-Sheath Mechanism. IEEE Robotics and Automation Letters, 2020, 5, 946-953.	5.1	18
23	Maximization and restoration: Action segmentation through dilation passing and temporal reconstruction. Pattern Recognition, 2022, 129, 108764.	8.1	18
24	Development of air vehicle with active flapping and twisting of wing. Journal of Bionic Engineering, 2011, 8, 1-9.	5.0	16
25	Non-invasive brain signal interface for a wheelchair navigation. , 2010, , .		11
26	Noninvasive sEMG-based control for humanoid robot teleoperated navigation. International Journal of Precision Engineering and Manufacturing, 2011, 12, 1105-1110.	2.2	10
27	Bayesian Weight Decay on Bounded Approximation for Deep Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2866-2875.	11.3	10
28	Active 3D Modeling via Online Multi-View Stereo. , 2020, , .		10
29	A novel online BCI system using speech imagery and ear-EEG for home appliances control. Computer Methods and Programs in Biomedicine, 2022, 224, 107022.	4.7	10
30	Single EMG Sensor-Driven Robotic Glove Control for Reliable Augmentation of Power Grasping. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 179-189.	3.2	9
31	A computational neuromusculoskeletal model of human arm movements. International Journal of Control, Automation and Systems, 2011, 9, 913-923.	2.7	8
32	Parasitic robot system for waypoint navigation of turtle. Journal of Bionic Engineering, 2017, 14, 327-335.	5.0	8
33	An auditory P300-based brain-computer interface using Ear-EEG. , 2018, , .		8
34	Single to Multi: Data-Driven High Resolution Calibration Method for Piezoresistive Sensor Array. IEEE Robotics and Automation Letters, 2021, 6, 4970-4977.	5.1	8
35	ALIS: Learning Affective Causality Behind Daily Activities From a Wearable Life-Log System. IEEE Transactions on Cybernetics, 2022, 52, 13212-13224.	9.5	8
36	Design and control of thermal SMA based small crawling robot mimicking C. elegans. , 2010, , .		7

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37	Incremental motion learning through kinesthetic teachings and new motion production from learned motions by a humanoid robot. International Journal of Control, Automation and Systems, 2012, 10, 126-135.	2.7	6
38	Improved Explanatory Efficacy on Human Affect and Workload Through Interactive Process in Artificial Intelligence. IEEE Access, 2020, 8, 189013-189024.	4.2	6
39	Human gait-based bipedal walking robot design in progress. , 2010, , .		5
40	Hybrid-BCI smart glasses for controlling electrical devices. , 2015, , .		5
41	3D Reconstruction using a sparse laser scanner and a single camera for outdoor autonomous vehicle. , 2016, , .		5
42	Asynchronous Motor Imagery Brain-Computer Interface for Simulated Drone Control. , 2021, , .		5
43	Learning Fingertip Force to Grasp Deformable Objects for Soft Wearable Robotic Glove With TSM. IEEE Robotics and Automation Letters, 2021, 6, 8126-8133.	5.1	5
44	Semantic Grasping Via a Knowledge Graph of Robotic Manipulation: A Graph Representation Learning Approach. IEEE Robotics and Automation Letters, 2022, 7, 9397-9404.	5.1	5
45	An Ear-EEG-based Brain-Computer Interface using Concentration Level for Control. , 2020, , .		4
46	Noninvasive Brain-Computer Interface-based control of humanoid navigation. , 2011, , .		3
47	Wearable hybrid brain-computer interface for daily life application. , 2015, , .		3
48	Real-time motion artifact detection and removal for ambulatory BCI. , 2015, , .		3
49	A Robot Capable of Proactive Assistance through Handovers for Sequential Tasks. , 2021, , .		3
50	Rank-based Discriminative Feature Learning for Motor Imagery Classification in EEG signals. , 2021, , .		2
51	Non-drifting limb angle measurement relative to the gravitational vector during dynamic motions using accelerometers and rate gyros. , 2011, , .		1
52	Affect-driven Robot Behavior Learning System using EEG Signals for Less Negative Feelings and More Positive Outcomes. , 2021, , .		1
53	Vision Combined with MI-Based BCI in Soft Robotic Glove Control. , 2022, , .		1
54	Enhancing the Performance of P300-based BCIs by tDCS of the Left VL-PFC. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
55	Subject-Independent Motor Imagery EEG Classification Based on Graph Convolutional Network. Lecture Notes in Computer Science, 2022, , 268-281.	1.3	1
56	Behavioral performance of multi-robots driven by human drawing. , 2010, , .		0
57	Pattern-preserving-based motion imitation for robots. , 2011, , .		0
58	Wearable wireless interface based on brain activity and eye movement. , 2014, , .		0
59	Investigation on Effect of Speech Imagery EEG Data Augmentation with Actual Speech. , 2022, , .		0