Trieu Phat Luu

List of Publications by Year
in descending order

28 papers	812 citations	840776 11 h-index	1199594 12 g-index
28 all docs	28 docs citations	28 times ranked	914 citing authors

#	ARTICLE	IF	CITATIONS
1	Brain–machine interfaces for controlling lower-limb powered robotic systems. Journal of Neural Engineering, 2018, 15, 021004.	3.5	157
2	Risk management and regulations for lower limb medical exoskeletons: a review. Medical Devices: Evidence and Research, 2017, Volume 10, 89-107.	0.8	98
3	Gait adaptation to visual kinematic perturbations using a real-time closed-loop brain–computer interface to a virtual reality avatar. Journal of Neural Engineering, 2016, 13, 036006.	3.5	82
4	Real-time EEG-based brain-computer interface to a virtual avatar enhances cortical involvement in human treadmill walking. Scientific Reports, 2017, 7, 8895.	3.3	68
5	An individual-specific gait pattern prediction model based on generalized regression neural networks. Gait and Posture, 2014, 39, 443-448.	1.4	53
6	An empirical comparison of neural networks and machine learning algorithms for EEG gait decoding. Scientific Reports, 2020, 10, 4372.	3.3	51
7	Hardware Development and Locomotion Control Strategy for an Over-Ground Gait Trainer: NaTUre-Gaits. IEEE Journal of Translational Engineering in Health and Medicine, 2014, 2, 1-9.	3.7	36
8	Electrocortical correlates of human level-ground, slope, and stair walking. PLoS ONE, 2017, 12, e0188500.	2.5	35
9	A closed-loop brain computer interface to a virtual reality avatar: Gait adaptation to visual kinematic perturbations. , 2015, 2015, 30-37.		27
10	Full body mobile brain-body imaging data during unconstrained locomotion on stairs, ramps, and level ground. Scientific Data, 2018, 5, 180133.	5.3	27
11	A mobile brain-body imaging dataset recorded during treadmill walking with a brain-computer interface. Scientific Data, 2018, 5, 180074.	5.3	25
12	Natural gait parameters prediction for gait rehabilitation via artificial neural network. , 2010, , .		19
13	Noninvasive EEG correlates of overground and stair walking. , 2016, 2016, 5729-5732.		18
14	Design of a customizable, modular pediatric exoskeleton for rehabilitation and mobility. , 2019, , .		17
15	Tremor-Suppression Orthoses for the Upper Limb: Current Developments and Future Challenges. Frontiers in Human Neuroscience, 2021, 15, 622535.	2.0	13
16	Unscented Kalman filter for neural decoding of human treadmill walking from non-invasive electroencephalography. , 2016, 2016, 1548-1551.		12
17	Prediction of lower-limb joint kinematics from surface EMG during overground locomotion. , 2017, , .		12
18	Subject-specific lower limb waveforms planning via artificial neural network. , 2011, 2011, 5975491.		11

#	Article	IF	Citations
19	Multi-Trial Gait Adaptation of Healthy Individuals during Visual Kinematic Perturbations. Frontiers in Human Neuroscience, 2017, 11, 320.	2.0	10
20	Subject-specific gait parameters prediction for robotic gait rehabilitation via generalized regression neural network. , 2011, , .		8
21	Prediction of EMG envelopes of multiple terrains over-ground walking from EEG signals using an unscented Kalman filter. , 2017, , .		7
22	Subject tailored gait pattern planning for robotic gait rehabilitation. , 2010, , .		6
23	EEG-based brain-computer interface to a virtual walking avatar engages cortical adaptation. , 2017, , .		6
24	Electrocortical amplitude modulations of human level-ground, slope, and stair walking. , 2017, 2017, 1913-1916.		5
25	Cortical features of locomotion-mode transitions via non-invasive EEG. , 2017, , .		3
26	Risk and adverse events related to lower-limb exoskeletons. , 2017, , .		3
27	Control architecture and network communication for a pediatric exoskeleton. , 2017, , .		2
28	EEG-based Neural Decoding of Gait in Developing Children. , 2019, , .		1