Che-Wei Lin

List of Publications by Year
in descending order

28 papers	522 citations	933447 10 h-index	713466 21 g-index
29 all docs	29 docs citations	29 times ranked	707 citing authors

#	Article	IF	Citations
1	A k-nearest-neighbor classifier with heart rate variability feature-based transformation algorithm for driving stress recognition. Neurocomputing, 2013, 116, 136-143.	5.9	99
2	Walking Pattern Classification and Walking Distance Estimation Algorithms Using Gait Phase Information. IEEE Transactions on Biomedical Engineering, 2012, 59, 2884-2892.	4.2	84
3	Mining Physiological Conditions from Heart Rate Variability Analysis. IEEE Computational Intelligence Magazine, 2010, 5, 50-58.	3.2	56
4	A Wearable Sensor Module With a Neural-Network-Based Activity Classification Algorithm for Daily Energy Expenditure Estimation. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 991-998.	3.2	53
5	Development of a portable activity detector for daily activity recognition. , 2009, , .		47
6	Evaluation of Vertical Ground Reaction Forces Pattern Visualization in Neurodegenerative Diseases Identification Using Deep Learning and Recurrence Plot Image Feature Extraction. Sensors, 2020, 20, 3857.	3.8	19
7	Development and Testing of a Virtual Reality Mirror Therapy System for the Sensorimotor Performance of Upper Extremity: A Pilot Randomized Controlled Trial. IEEE Access, 2021, 9, 14725-14734.	4.2	19
8	The Effects of an Activity Promotion System on active living in overweight subjects with metabolic abnormalities. Obesity Research and Clinical Practice, 2017, 11, 718-727.	1.8	16
9	Development of a Neurodegenerative Disease Gait Classification Algorithm Using Multiscale Sample Entropy and Machine Learning Classifiers. Entropy, 2020, 22, 1340.	2.2	16
10	A digital circuit design of hyperbolic tangent sigmoid function for neural networks. , 2008, , .		15
11	Effects of a Virtual Reality–Based Mirror Therapy Program on Improving Sensorimotor Function of Hands in Chronic Stroke Patients: A Randomized Controlled Trial. Neurorehabilitation and Neural Repair, 2022, 36, 335-345.	2.9	15
12	Implementation of a Deep Learning Algorithm Based on Vertical Ground Reaction Force Time–Frequency Features for the Detection and Severity Classification of Parkinson's Disease. Sensors, 2021, 21, 5207.	3.8	11
13	Functional connectivity between parietal cortex and the cardiac autonomic system in uremics. Kaohsiung Journal of Medical Sciences, 2014, 30, 125-132.	1.9	9
14	Sleep Apnea Classification Algorithm Development Using a Machine-Learning Framework and Bag-of-Features Derived from Electrocardiogram Spectrograms. Journal of Clinical Medicine, 2022, 11, 192.	2.4	9
15	Functional connectivity between lateral premotor-parietal circuits and the cardiac autonomic system in Parkinson's disease. Journal of the Neurological Sciences, 2013, 326, 48-52.	0.6	8
16	Multiscale Approximate Entropy for Gait Analysis in Patients with Neurodegenerative Diseases. Entropy, 2019, 21, 934.	2.2	8
17	Identification of Neurodegenerative Diseases Based on Vertical Ground Reaction Force Classification Using Time–Frequency Spectrogram and Deep Learning Neural Network Features. Brain Sciences, 2021, 11, 902.	2.3	7
18	Development of Neuro-Degenerative Diseases' Gait Classification Algorithm Using Convolutional Neural Network and Wavelet Coherence Spectrogram of Gait Synchronization. IEEE Access, 2022, 10, 38137-38153.	4.2	7

#	Article	IF	Citations
19	Designing and pilot testing a novel high-definition transcranial burst electrostimulation device for neurorehabilitation. Journal of Neural Engineering, 2021, 18, 056030.	3.5	5
20	Using Virtual Reality–Based Rehabilitation in Sarcopenic Older Adults in Rural Health Care Facilities–A Quasi-Experimental Study. Journal of Aging and Physical Activity, 2021, 29, 866-877.	1.0	5
21	Solving Inverse Electrocardiographic Mapping Using Machine Learning and Deep Learning Frameworks. Sensors, 2022, 22, 2331.	3.8	5
22	Driving Conditions Recognition Using Heart Rate Variability Indexes. , 2010, , .		4
23	Heart Rate Variability is Associated with Memory in Females. Applied Psychophysiology Biofeedback, 2019, 44, 117-122.	1.7	3
24	Using Heart Rate Variability Parameter-Based Feature Transformation Algorithm for Driving Stress Recognition. Lecture Notes in Computer Science, 2011, , 532-537.	1.3	1
25	A digital circuit design of state-space recurrent neural networks. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	0
26	Development of Radial Artery Pulse Audiogram Sensing System for Fast Detection of Atrial Fibrillation and Pulse Amplitude Variation. IEEE Access, 2020, 8, 178770-178781.	4.2	0
27	Classification of Parkinson's Disease Severity Using Heart Rate Variability Analysis. , 2012, , 425-442.		0
28	Effects of vibrotactile-enhanced music-based intervention on sensorimotor control capacity in the hand of an aging brain: a pilot feasibility randomized crossover trial. BMC Geriatrics, 2021, 21, 660.	2.7	0