Xugang Xi

List of Publications by Year in descending order

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31 papers	417 citations	759233 12 h-index	752698 20 g-index
32 all docs	32 docs citations	32 times ranked	448 citing authors

#	Article	IF	Citations
1	Evaluation of Feature Extraction and Recognition for Activity Monitoring and Fall Detection Based on Wearable sEMG Sensors. Sensors, 2017, 17, 1229.	3.8	95
2	Surface electromyography signal denoising via EEMD and improved wavelet thresholds. Mathematical Biosciences and Engineering, 2020, 17, 6945-6962.	1.9	26
3	Enhanced EEGâ€“EMG coherence analysis based on hand movements. Biomedical Signal Processing and Control, 2020, 56, 101727.	5.7	25
4	Feature-Level Fusion of Surface Electromyography for Activity Monitoring. Sensors, 2018, 18, 614.	3.8	24
5	Daily Activity Monitoring and Fall Detection Based on Surface Electromyography and Plantar Pressure. Complexity, 2020, 2020, 1-12.	1.6	24
6	Surface Electromyography Based Estimation of Knee Joint Angle by Using Correlation Dimension of Wavelet Coefficient. IEEE Access, 2019, 7, 60522-60531.	4.2	21
7	SEMG-based multifeatures and predictive model for knee-joint-angle estimation. AIP Advances, 2019, 9, .	1.3	20
8	Towards designing risk-based safe Laplacian Regularized Least Squares. Expert Systems With Applications, 2016, 45, 1-7.	7.6	19
9	Simultaneous and Continuous Estimation of Joint Angles Based on Surface Electromyography State-Space Model. IEEE Sensors Journal, 2021, 21, 8089-8099.	4.7	16
10	Surface Electromyography-Based Daily Activity Recognition Using Wavelet Coherence Coefficient and Support Vector Machine. Neural Processing Letters, 2019, 50, 2265-2280.	3.2	14
11	Estimation and Correlation Analysis of Lower Limb Joint Angles Based on Surface Electromyography. Electronics (Switzerland), 2020, 9, 556.	3.1	13
12	Construction and analysis of corticalâ€“muscular functional network based on EEG-EMG coherence using wavelet coherence. Neurocomputing, 2021, 438, 248-258.	5.9	12
13	Denoising of surface electromyogram based on complementary ensemble empirical mode decomposition and improved interval thresholding. Review of Scientific Instruments, 2019, 90, 035003.	1.3	11
14	Facial expression distribution prediction based on surface electromyography. Expert Systems With Applications, 2020, 161, 113683.	7.6	11
15	EEG Feature Extraction Based on a Bilevel Network: Minimum Spanning Tree and Regional Network. Electronics (Switzerland), 2020, 9, 203.	3.1	11
16	On using supervised clustering analysis to improve classification performance. Information Sciences, 2018, 454-455, 216-228.	6.9	10
17	Effect of muscle fatigue on the cortical-muscle network: A combined electroencephalogram and electromyogram study. Brain Research, 2021, 1752, 147221.	2.2	10
18	Movement Trajectory Recognition of Sign Language Based on Optimized Dynamic Time Warping. Electronics (Switzerland), 2020, 9, 1400.	3.1	8

#	Article	IF	Citations
19	Cortico-muscular functional network: an exploration of cortico-muscular coupling in hand movements. Journal of Neural Engineering, 2021, 18, 046084.	3.5	7
20	Emotion-movement relationship: A study using functional brain network and cortico-muscular coupling. Journal of Neuroscience Methods, 2021, 362, 109320.	2.5	7
21	Stochastic stabilisation of wireless networked control systems with lossy multiâ€packet transmission. IET Control Theory and Applications, 2019, 13, 594-601.	2.1	7
22	Gesture Recognition Based on Multiscale Singular Value Entropy and Deep Belief Network. Sensors, 2021, 21, 119.	3.8	7
23	sEMG-MMG State-Space Model for the Continuous Estimation of Multijoint Angle. Complexity, 2020, 2020, 1-12.	1.6	4
24	Feature Extraction of Surface Electromyography Based on Improved Small-World Leaky Echo State Network. Neural Computation, 2020, 32, 741-758.	2.2	4
25	Corticomuscular coupling analysis based on improved LSTM and transfer entropy. Neuroscience Letters, 2021, 760, 136012.	2.1	4
26	Estimation of Continuous Joint Angles of Upper Limb Based on sEMG by Using GA-Elman Neural Network. Mathematical Problems in Engineering, 2020, 2020, 1-11.	1.1	2
27	Feature Extraction of Surface Electromyography Using Wavelet Weighted Permutation Entropy for Hand Movement Recognition. Journal of Healthcare Engineering, 2020, 2020, 1-11.	1.9	2
28	An error compensation method for remote sensing measurement of mobile source emissions. Measurement Science and Technology, 2018, 29, 105202.	2.6	1
29	Effects of transcranial direct current stimulation on brain network connectivity and complexity in motor imagery. Neuroscience Letters, 2021, 757, 135968.	2.1	1
30	Investigation of Corticomuscular Functional Coupling during Hand Movements Using Vine Copula. Brain Sciences, 2022, 12, 754.	2.3	1
31	Adaptive compensation for measurement error in remote sensing of mobile source emissions. Measurement: Journal of the International Measurement Confederation, 2019, 148, 106927.	5.0	0