Ernest Nlandu Kamavuako

List of Publications by Year
in descending order

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86	2,872	136950	182427
papers	citations	32 h-index	51 g-index

86	86	86	2249
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Inter-classifier comparison for upper extremity EMG signal at different hand postures and arm positions using pattern recognition. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 228-238.	1.8	4
2	Rehabilitation of Upper Limb Motor Impairment in Stroke: A Narrative Review on the Prevalence, Risk Factors, and Economic Statistics of Stroke and State of the Art Therapies. Healthcare (Switzerland), 2022, 10, 190.	2.0	23
3	Review on electromyography based intention for upper limb control using pattern recognition for human-machine interaction. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 628-645.	1.8	17
4	Hammersteinâ€“Wiener Multimodel Approach for Fast and Efficient Muscle Force Estimation from EMG Signals. Biosensors, 2022, 12, 117.	4.7	5
5	The Effect of Signal Duration on the Classification of Heart Sounds: A Deep Learning Approach. Sensors, 2022, 22, 2261.	3.8	9
6	Validity and Reliability of a Smartphone App for Gait and Balance Assessment. Sensors, 2022, 22, 124.	3.8	21
7	Associative cued asynchronous <scp>BCI</scp> induces cortical plasticity in stroke patients. Annals of Clinical and Translational Neurology, 2022, 9, 722-733.	3.7	6
8	The Effect of EMG Features on the Classification of Swallowing Events and the Estimation of Fluid Intake Volume. Sensors, 2022, 22, 3380.	3.8	4
9	Reply to Morone, G.; Giansanti, D. Comment on â€œAnwer et al. Rehabilitation of Upper Limb Motor Impairment in Stroke: A Narrative Review on the Prevalence, Risk Factors, and Economic Statistics of Stroke and State of the Art Therapies. Healthcare 2022, 10, 190â€. Healthcare (Switzerland), 2022, 10, 847.	2.0	5
10	Modulation of SI and ACC response to noxious and nonâ€noxious electrical stimuli after the spared nerve injury model of neuropathic pain. European Journal of Pain, 2021, 25, 612-623.	2.8	0
11	Investigating the Intervention Parameters of Endogenous Paired Associative Stimulation (ePAS). Brain Sciences, 2021, 11, 224.	2.3	3
12	Online Closed-Loop Control Using Tactile Feedback Delivered Through Surface and Subdermal Electrotactile Stimulation. Frontiers in Neuroscience, 2021, 15, 580385.	2.8	0
13	Decoding of Ankle Joint Movements in Stroke Patients Using Surface Electromyography. Sensors, 2021, 21, 1575.	3.8	3
14	Evaluation of windowing techniques for intramuscular EMG-based diagnostic, rehabilitative and assistive devices. Journal of Neural Engineering, 2021, 18, 016017.	3.5	10
15	Software Sensor to Enhance Online Parametric Identification for Nonlinear Closed-Loop Systems for Robotic Applications. Sensors, 2021, 21, 3653.	3.8	1
16	Altered evoked low-frequency connectivity from SI to ACC following nerve injury in rats. Journal of Neural Engineering, 2021, 18, 046063.	3.5	1
17	The contemporary model of vertebral column joint dysfunction and impact of high-velocity, low-amplitude controlled vertebral thrusts on neuromuscular function. European Journal of Applied Physiology, 2021, 121, 2675-2720.	2.5	22
18	Multiple-day high-dose beetroot juice supplementation does not improve pulmonary or muscle deoxygenation kinetics of well-trained cyclists in normoxia and hypoxia. Nitric Oxide - Biology and Chemistry, 2021, 111-112, 37-44.	2.7	3

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19	Affordable Embroidered EMG Electrodes for Myoelectric Control of Prostheses: A Pilot Study. Sensors, 2021, 21, 5245.	3.8	7
20	Efficacy of a Single-Task ERP Measure to Evaluate Cognitive Workload During a Novel Exergame. Frontiers in Human Neuroscience, 2021, 15, 742384.	2.0	4
21	Electroencephalographic Recording of the Movement-Related Cortical Potential in Ecologically Valid Movements: A Scoping Review. Frontiers in Neuroscience, 2021, 15, 721387.	2.8	10
22	The Effects of Spinal Manipulation on Motor Unit Behavior. Brain Sciences, 2021, 11, 105.	2.3	3
23	Estimation of the Respiratory Rate from Localised ECG at Different Auscultation Sites. Sensors, 2021, 21, 78.	3.8	9
24	Chiropractic Spinal Adjustment Increases the Cortical Drive to the Lower Limb Muscle in Chronic Stroke Patients. Frontiers in Neurology, 2021, 12, 747261.	2.4	2
25	Correlation between the stability of feature distribution and classification performance in sEMG signals. , 2021, , .		3
26	Upper limb complex movements decoding from pre-movement EEG signals using wavelet common spatial patterns. Computer Methods and Programs in Biomedicine, 2020, 183, 105076.	4.7	35
27	The Variability of Psychophysical Parameters Following Surface and Subdermal Stimulation: A Multiday Study in Amputees. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 174-180.	4.9	8
28	Comparison between Embroidered and Gel Electrodes on ECG-Derived Respiration Rate. , 2020, 2020, 2622-2625.		5
29	Modeling simple and complex handwriting based on EMG signals. , 2020, , 129-149.		2
30	Decoding Attempted Hand Movements in Stroke Patients Using Surface Electromyography. Sensors, 2020, 20, 6763.	3.8	14
31	The Effect of Spinal Manipulation on the Electrophysiological and Metabolic Properties of the Tibialis Anterior Muscle. Healthcare (Switzerland), 2020, 8, 548.	2.0	5
32	A comparative study of motion detection with FMG and sEMG methods for assistive applications. Journal of Rehabilitation and Assistive Technologies Engineering, 2020, 7, 205566832093858.	0.9	10
33	Determination of Optimum Segmentation Schemes for Pattern Recognition-Based Myoelectric Control: A Multi-Dataset Investigation. IEEE Access, 2020, 8, 90862-90877.	4.2	15
34	A Multiday Evaluation of Real-Time Intramuscular EMG Usability with ANN. Sensors, 2020, 20, 3385.	3.8	12
35	Performance Evaluation of Convolutional Neural Network for Hand Gesture Recognition Using EMG. Sensors, 2020, 20, 1642.	3.8	76
36	Intra- and Inter-Rater Reliability of Manual Feature Extraction Methods in Movement Related Cortical Potential Analysis. Sensors, 2020, 20, 2427.	3.8	0

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37	The Short-Term Repeatability of Subdermal Electrical Stimulation for Sensory Feedback. IEEE Access, 2020, 8, 63983-63992.	4.2	14
38	Nerve Injury Decreases Hyperacute Resting-State Connectivity Between the Anterior Cingulate and Primary Somatosensory Cortex in Anesthetized Rats. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2691-2698.	4.9	3
39	Multiday Evaluation of Techniques for EMG-Based Classification of Hand Motions. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1526-1534.	6.3	82
40	Optimal automatic detection of muscle activation intervals. Journal of Electromyography and Kinesiology, 2019, 48, 103-111.	1.7	21
41	Chronic high-dose beetroot juice supplementation improves time trial performance of well-trained cyclists in normoxia and hypoxia. Nitric Oxide - Biology and Chemistry, 2019, 85, 44-52.	2.7	32
42	The effects of chiropractic spinal manipulation on central processing of tonic pain - a pilot study using standardized low-resolution brain electromagnetic tomography (sLORETA). Scientific Reports, 2019, 9, 6925.	3.3	20
43	Classification of Movement Preparation Between Attended and Distracted Self-Paced Motor Tasks. IEEE Transactions on Biomedical Engineering, 2019, 66, 3060-3071.	4.2	6
44	The effects of a single session of chiropractic care on strength, cortical drive, and spinal excitability in stroke patients. Scientific Reports, 2019, 9, 2673.	3.3	19
45	On the robustness of real-time myoelectric control investigations: a multiday Fittsâ€™ law approach. Journal of Neural Engineering, 2019, 16, 026003.	3.5	20
46	Psychophysical Evaluation of Subdermal Electrical Stimulation in Relation to Prosthesis Sensory Feedback. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 709-715.	4.9	20
47	The effect of time on EMG classification of hand motions in able-bodied and transradial amputees. Journal of Electromyography and Kinesiology, 2018, 40, 72-80.	1.7	43
48	The effects of a single session of spinal manipulation on strength and cortical drive in athletes. European Journal of Applied Physiology, 2018, 118, 737-749.	2.5	38
49	Online mapping of EMG signals into kinematics by autoencoding. Journal of NeuroEngineering and Rehabilitation, 2018, 15, 21.	4.6	68
50	The effect of arm position on classification of hand gestures with intramuscular EMG. Biomedical Signal Processing and Control, 2018, 43, 1-8.	5.7	44
51	Paired Associative Stimulation Delivered by Pairing Movement-Related Cortical Potentials With Peripheral Electrical Stimulation: An Investigation of the Duration of Neuromodulatory Effects. Neuromodulation, 2018, 21, 362-367.	0.8	20
52	Distinct patterns of variation in the distribution of knee pain. Scientific Reports, 2018, 8, 16522.	3.3	25
53	An EEG Experimental Study Evaluating the Performance of Texas Instruments ADS1299. Sensors, 2018, 18, 3721.	3.8	49
54	Classification of Overt and Covert Speech for Near-Infrared Spectroscopy-Based Brain Computer Interface. Sensors, 2018, 18, 2989.	3.8	7

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55	Stacked Sparse Autoencoders for EMG-Based Classification of Hand Motions: A Comparative Multi Day Analyses between Surface and Intramuscular EMG. Applied Sciences (Switzerland), 2018, 8, 1126.	2.5	45
56	Multiday EMG-Based Classification of Hand Motions with Deep Learning Techniques. Sensors, 2018, 18, 2497.	3.8	146
57	Chiropractic Manipulation Increases Maximal Bite Force in Healthy Individuals. Brain Sciences, 2018, 8, 76.	2.3	10
58	Effect of threshold values on the combination of EMG time domain features: Surface versus intramuscular EMG. Biomedical Signal Processing and Control, 2018, 45, 267-273.	5.7	39
59	Chiropractic spinal manipulation alters TMS induced I-wave excitability and shortens the cortical silent period. Journal of Electromyography and Kinesiology, 2018, 42, 24-35.	1.7	16
60	Classification of EEG signals to identify variations in attention during motor task execution. Journal of Neuroscience Methods, 2017, 284, 27-34.	2.5	45
61	Influence of attention alternation on movement-related cortical potentials in healthy individuals and stroke patients. Clinical Neurophysiology, 2017, 128, 165-175.	1.5	13
62	Impact of Spinal Manipulation on Cortical Drive to Upper and Lower Limb Muscles. Brain Sciences, 2017, 7, 2.	2.3	37
63	Classification of Hand Grasp Kinetics and Types Using Movement-Related Cortical Potentials and EEG Rhythms. Computational Intelligence and Neuroscience, 2017, 2017, 1-8.	1.7	12
64	Manipulation of Dysfunctional Spinal Joints Affects Sensorimotor Integration in the Prefrontal Cortex: A Brain Source Localization Study. Neural Plasticity, 2016, 2016, 1-9.	2.2	47
65	Determination of optimum threshold values for EMG time domain features; a multi-dataset investigation. Journal of Neural Engineering, 2016, 13, 046011.	3.5	36
66	Pressure buffering by the tympanic membrane. InÂvivo measurements of middle ear pressure fluctuations during elevator motion. Hearing Research, 2016, 340, 113-120.	2.0	19
67	Detecting and classifying three different hand movement types through electroencephalography recordings for neurorehabilitation. Medical and Biological Engineering and Computing, 2016, 54, 1491-1501.	2.8	60
68	Efficient neuroplasticity induction in chronic stroke patients by an associative brain-computer interface. Journal of Neurophysiology, 2016, 115, 1410-1421.	1.8	189
69	A Review of Techniques for Detection of Movement Intention Using Movement-Related Cortical Potentials. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-13.	1.3	91
70	Comparison of Features for Movement Prediction from Single-Trial Movement-Related Cortical Potentials in Healthy Subjects and Stroke Patients. Computational Intelligence and Neuroscience, 2015, 2015, 1-8.	1.7	22
71	Changes in H-reflex and V-waves following spinal manipulation. Experimental Brain Research, 2015, 233, 1165-1173.	1.5	57
72	Comparison of spatial filters and features for the detection and classification of movement-related cortical potentials in healthy individuals and stroke patients. Journal of Neural Engineering, 2015, 12, 056003.	3.5	47

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73	Detecting and classifying movement-related cortical potentials associated with hand movements in healthy subjects and stroke patients from single-electrode, single-trial EEG. Journal of Neural Engineering, 2015, 12, 056013.	3.5	70
74	On the usability of intramuscular EMG for prosthetic control: A Fittsâ€™ Law approach. Journal of Electromyography and Kinesiology, 2014, 24, 770-777.	1.7	37
75	Detection of Movement Intentions through a Single Channel of Electroencephalography. Biosystems and Biorobotics, 2014, , 465-472.	0.3	6
76	Combined surface and intramuscular EMG for improved real-time myoelectric control performance. Biomedical Signal Processing and Control, 2014, 10, 102-107.	5.7	43
77	Detection and classification of movement-related cortical potentials associated with task force and speed. Journal of Neural Engineering, 2013, 10, 056015.	3.5	98
78	Surface Versus Untargeted Intramuscular EMG Based Classification of Simultaneous and Dynamically Changing Movements. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 992-998.	4.9	34
79	Influence of the feature space on the estimation of hand grasping force from intramuscular EMG. Biomedical Signal Processing and Control, 2013, 8, 1-5.	5.7	48
80	Wrist torque estimation during simultaneous and continuously changing movements: surface vs. untargeted intramuscular EMG. Journal of Neurophysiology, 2013, 109, 2658-2665.	1.8	36
81	Hysteresis in the electromyographyâ€“force relationship: Toward an optimal model for the estimation of force. Muscle and Nerve, 2012, 46, 755-758.	2.2	14
82	Precise temporal association between cortical potentials evoked by motor imagination and afference induces cortical plasticity. Journal of Physiology, 2012, 590, 1669-1682.	2.9	210
83	Peripheral Electrical Stimulation Triggered by Self-Paced Detection of Motor Intention Enhances Motor Evoked Potentials. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 595-604.	4.9	129
84	Simultaneous and Proportional Force Estimation in Multiple Degrees of Freedom From Intramuscular EMG. IEEE Transactions on Biomedical Engineering, 2012, 59, 1804-1807.	4.2	57
85	Detection of movement intention from single-trial movement-related cortical potentials. Journal of Neural Engineering, 2011, 8, 066009.	3.5	208
86	Relationship between grasping force and features of single-channel intramuscular EMG signals. Journal of Neuroscience Methods, 2009, 185, 143-150.	2.5	63