Oluwarotimi William Samuel

List of Publications by Year in Descending Order

| 77 papers | 1,169 citations | 18 h-index | 32 g-index |
| 95 ext. papers | 1,636 ext. citations | 3.5 avg, IF | 4.96 L-index |

#	Paper	IF	Citations
77	Enhancement of Upper Limb Movement Classification based on Wiener Filtering Technique **2021**,		2
76	Contrast of multi-resolution analysis approach to transhumeral phantom motion decoding. *CAAI Transactions on Intelligence Technology*, **2021**, 6, 360-375	9.7	3
75	Lagrangian-averaged vorticity deviation of spiraling blood flow in the heart during isovolumic contraction and ejection phases. *Medical and Biological Engineering and Computing*, **2021**, 59, 1417-1430	3.1	3
74	GBRAMP: A generalized backtracking regularized adaptive matching pursuit algorithm for signal reconstruction. *Computers and Electrical Engineering*, **2021**, 92, 107189	4.3	3
73	Fuzzy Driven Decision Support System for Enhanced Employee Performance Appraisal **2021**, 1353-1366		
72	Decoding movement intent patterns based on spatiotemporal and adaptive filtering method towards active motor training in stroke rehabilitation systems. *Neural Computing and Applications*, **2021**, 33, 4793-4806	4.8	6
71	Towards optimal selection of stimuli polarity method for effective evoking auditory brainstem responses. *Journal of Integrative Neuroscience*, **2021**, 20, 297-305	1.5	
70	An integrated deep learning model for motor intention recognition of multi-class EEG Signals in upper limb amputees. *Computer Methods and Programs in Biomedicine*, **2021**, 206, 106121	6.9	5
69	Neuro-evolutionary approach for optimal selection of EEG channels in motor imagery based BCI application. *Biomedical Signal Processing and Control*, **2021**, 68, 102621	4.9	2
68	Application of noninvasive magnetomyography in labour imminency prediction for term and preterm pregnancies and ethnicity specific labour prediction. *Machine Learning With Applications*, **2021**, 5, 100066	6.5	3
67	A new strategy based on feature filtering technique for improving the real-time control performance of myoelectric prostheses. *Biomedical Signal Processing and Control*, **2021**, 70, 102969	4.9	2
66	A study on preterm birth predictions using physiological signals, medical health record information and low-dimensional embedding methods. *IET Cyber-Systems and Robotics*, **2021**, 3, 228-244	1.6	1
65	A Bi-Directional LSTM Network for Estimating Continuous Upper Limb Movement From Surface Electromyography. *IEEE Robotics and Automation Letters*, **2021**, 6, 7217-7224	4.2	4
64	A Novel and Efficient Feature Extraction Method for Deep Learning Based Continuous Estimation. *IEEE Robotics and Automation Letters*, **2021**, 6, 7341-7348	4.2	2
63	Enhancing care strategies for preterm pregnancies by using a prediction machine to aid clinical care decisions. *Machine Learning With Applications*, **2021**, 6, 100110	6.5	1
62	Appropriate Feature Set and Window Parameters Selection for Efficient Motion Intent Characterization towards Intelligently Smart EMG-PR System. *Symmetry*, **2020**, 12, 1710	2.7	4
61	A stacked sparse auto-encoder and back propagation network model for sensory event detection via a flexible ECoG. *Cognitive Neurodynamics*, **2020**, 14, 591-607	4.2	1

#	Title		
60	The Effects of Random Stimulation Rate on Measurements of Auditory Brainstem Response. *Frontiers in Human Neuroscience*, **2020**, 14, 78	3.3	4
59	Modulation of muscle synergies for multiple forearm movements under variant force and arm position constraints. *Journal of Neural Engineering*, **2020**, 17, 026015	5	2
58	Continuous estimation of upper limb joint angle from sEMG signals based on SCA-LSTM deep learning approach. *Biomedical Signal Processing and Control*, **2020**, 61, 102024	4.9	18
57	Fuzzy Driven Decision Support System for Enhanced Employee Performance Appraisal. *International Journal of Human Capital and Information Technology Professionals*, **2020**, 11, 17-30	0.6	
56	Identification of Upper-Limb Movements Based on Muscle Shape Change Signals for Human-Robot Interaction. *Computational and Mathematical Methods in Medicine*, **2020**, 2020, 5694265	2.8	4
55	A new technique for the prediction of heart failure risk driven by hierarchical neighborhood component-based learning and adaptive multi-layer networks. *Future Generation Computer Systems*, **2020**, 110, 781-794	7.5	13
54	Towards resolving the co-existing impacts of multiple dynamic factors on the performance of EMG-pattern recognition based prostheses. *Computer Methods and Programs in Biomedicine*, **2020**, 184, 105278	6.9	23
53	Characterizing Multiple Patterns of Motor Intent Using Spatial-Temporal Information for Intuitively Active Motor Training in Stroke Survivors. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2020**, 2020, 3831-3834	0.9	1
52	Efficient Classification of Motor Imagery using Particle Swarm Optimization-based Neural Network for IoT Applications **2020**,		2
51	Towards image-based cancer cell lines authentication using deep neural networks. *Scientific Reports*, **2020**, 10, 19857	4.9	8
50	Robustness of Muscle Synergies under Variant Muscle Contraction Force during Forearm Movements. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2020**, 2020, 3306-3309	0.9	0
49	Towards optimizing electrode configurations for silent speech recognition based on high-density surface electromyography. *Journal of Neural Engineering*, **2020**,	5	4
48	A joint resource-aware and medical data security framework for wearable healthcare systems. *Future Generation Computer Systems*, **2019**, 95, 382-391	7.5	74
47	Spasticity Assessment Based on the Maximum Isometrics Voluntary Contraction of Upper Limb Muscles in Post-stroke Hemiplegia. *Frontiers in Neurology*, **2019**, 10, 465	4.1	8
46	OMDP: An ontology-based model for diagnosis and treatment of diabetes patients in remote healthcare systems. *International Journal of Distributed Sensor Networks*, **2019**, 15, 155014771984711	1.7	14
45	Flexible noncontact electrodes for comfortable monitoring of physiological signals. *International Journal of Adaptive Control and Signal Processing*, **2019**, 33, 1307-1318	2.8	4
44	Appropriate Mother Wavelets for Continuous Gait Event Detection Based on Time-Frequency Analysis for Hemiplegic and Healthy Individuals. *Sensors*, **2019**, 19,	3.8	10
43	Toward mapping spatiotemporal characteristics of muscle oxygenation in different motor modalities by multichannel near-infrared spectroscopy. *International Journal of Adaptive Control and Signal Processing*, **2019**, 33, 1292-1306	2.8	

42	Realizing Efficient EMG-Based Prosthetic Control Strategy. *Advances in Experimental Medicine and Biology*, **2019**, 1101, 149-166	3.6	2
41	Performance of Flexible Non-contact Electrodes in Bioelectrical Signal Measurements **2019**,		3
40	Comparing Auditory Brainstem Responses evoked by Click and Sweep-Tone in Normal-Hearing Adults. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 5237-5240	0.9	2
39	Spatio-Temporal Based Descriptor for Limb Movement-Intent Characterization in EMG-Pattern Recognition System. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 2637-2640	0.9	5
38	Intelligent EMG Pattern Recognition Control Method for Upper-Limb Multifunctional Prostheses: Advances, Current Challenges, and Future Prospects. *IEEE Access*, **2019**, 7, 10150-10165	3.5	60
37	New photoplethysmogram indicators for improving cuffless and continuous blood pressure estimation accuracy. *Physiological Measurement*, **2018**, 39, 025005	2.9	42
36	Pattern recognition of electromyography signals based on novel time domain features for amputeesalimb motion classification. *Computers and Electrical Engineering*, **2018**, 67, 646-655	4.3	95
35	Multi-technique object tracking approach- A reinforcement paradigm. *Computers and Electrical Engineering*, **2018**, 66, 557-568	4.3	3
34	Adaptive context aware decision computing paradigm for intensive health care delivery in smart citiesA case analysis. *Sustainable Cities and Society*, **2018**, 41, 919-924	10.1	43
33	Effective Biopotential Signal Acquisition: Comparison of Different Shielded Drive Technologies. *Applied Sciences (Switzerland)*, **2018**, 8, 276	2.6	16
32	A Robust Sparse Representation Based Pattern Recognition Approach for Myoelectric Control. *IEEE Access*, **2018**, 6, 38326-38335	3.5	34
31	Computational Intelligence Enabling the Development of Efficient Clinical Decision Support Systems: Case Study of Heart Failure **2018**, 123-133		0
30	A Novel Antibacterial Membrane Electrode Based on Bacterial Cellulose/Polyaniline/AgNO Composite for Bio-Potential Signal Monitoring. *IEEE Journal of Translational Engineering in Health and Medicine*, **2018**, 6, 2700310	3	3
29	Intelligent computing system based on pattern recognition and data mining algorithms. *Sustainable Computing: Informatics and Systems*, **2018**, 20, 192-202	3	28
28	Towards an efficient risk assessment in software projectsFuzzy reinforcement paradigm. *Computers and Electrical Engineering*, **2018**, 71, 833-846	4.3	63
27	Determining the Optimal Window Parameters for Accurate and Reliable Decoding of Multiple Classes of Upper Limb Motor Imagery Tasks **2018**,		2
26	Effect of Window Conditioning Parameters on the Classification Performance and Stability of EMG-Based Feature Extraction Methods **2018**,		2
25	Efficient Channel Selection Approach for Motor Imaginary Classification based on Convolutional Neural Network **2018**,		3

24	A Novel Time-Domain Descriptor for Improved Prediction of Upper Limb Movement Intent in EMG-PR System. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 3513-3516	0.9	8
23	Normalization factor for the assessment of elbow spasticity with passive stretch measurement: maximum torque VS. body weight. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, 2018, 2018, 388-391	0.9	2
22	An intelligent wearable device for humans cervical vertebra posture monitoring. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 3280-3283	0.9	7
21	Using Muscle Synergy to Evaluate the Neck Muscular Activities during Normal Swallowing. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 2454-2457	0.9	1
20	A Novel Flexible Sensor for Muscle Shape Change Monitoring in Limb Motion Recognition. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 4665-4668	0.9	4
19	Muscle Activity-Driven Green-Oriented Random Number Generation Mechanism to Secure WBSN Wearable Device Communications. *Wireless Communications and Mobile Computing*, **2018**, 2018, 1-11	1.9	0
18	Reply to Comment on a New photoplethysmogram indicators for improving cuffless and continuous blood pressure estimation accuracy a *Physiological Measurement*, **2018**, 39, 098002	2.9	1
17	Fuzzy vault-based biometric security method for tele-health monitoring systems. *Computers and Electrical Engineering*, **2018**, 71, 546-557	4.3	26
16	A Genetic-Neuro-Fuzzy inferential model for diagnosis of tuberculosis. *Applied Computing and Informatics*, **2017**, 13, 27-37	4.2	26
15	Resolving the adverse impact of mobility on myoelectric pattern recognition in upper-limb multifunctional prostheses. *Computers in Biology and Medicine*, **2017**, 90, 76-87	7	35
14	Towards Efficient Decoding of Multiple Classes of Motor Imagery Limb Movements Based on EEG Spectral and Time Domain Descriptors. *Journal of Medical Systems*, **2017**, 41, 194	5.1	31
13	Using a new PPG indicator to increase the accuracy of PTT-based continuous cuffless blood pressure estimation. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 738-741	0.9	14
12	Electromyogram-based method to secure wireless body sensor networks for rehabilitation systems. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 1246-1249	0.9	
11	Motor imagery classification of upper limb movements based on spectral domain features of EEG patterns. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 2976-2979	0.9	12
10	An integrated decision support system based on ANN and Fuzzy_AHP for heart failure risk prediction. *Expert Systems With Applications*, **2017**, 68, 163-172	7.8	190
9	A pilot study on the evaluation of normal phonating function based on high-density sEMG topographic maps. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 4883-4886	0.9	3
8	A new EMG-based index towards the assessment of elbow spasticity for post-stroke patients. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 3640-3643	0.9	5
7	Real-time classification of forearm movements based on high density surface electromyography **2017**,		3

6	A Novel Technique for Fetal ECG Extraction Using Single-Channel Abdominal Recording. *Sensors*, **2017**, 17,	3.8	25
5	Improving the Robustness of Electromyogram-Pattern Recognition for Prosthetic Control by a Postprocessing Strategy. *Frontiers in Neurorobotics*, **2017**, 11, 51	3.4	14
4	Improving the Robustness of Real-Time Myoelectric Pattern Recognition against Arm Position Changes in Transradial Amputees. *BioMed Research International*, **2017**, 2017, 5090454	3	21
3	Towards reducing the impacts of unwanted movements on identification of motion intentions. *Journal of Electromyography and Kinesiology*, **2016**, 28, 90-8	2.5	30
2	A Fuzzy-Based Recommender System for Electronic Products Selection using UsersaRequirements and Other UsersaOpinion. *International Journal of Fuzzy System Applications*, **2015**, 4, 76-87	0.6	2
1	A web based decision support system driven by fuzzy logic for the diagnosis of typhoid fever. *Expert Systems With Applications*, **2013**, 40, 4164-4171	7.8	57