

Oluwarotimi William Samuel

List of Publications by Citations

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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	An integrated decision support system based on ANN and Fuzzy_AHP for heart failure risk prediction. <i>Expert Systems With Applications</i> , 2017 , 68, 163-172	7.8	190
76	Pattern recognition of electromyography signals based on novel time domain features for amputees limb motion classification. <i>Computers and Electrical Engineering</i> , 2018 , 67, 646-655	4.3	95
75	A joint resource-aware and medical data security framework for wearable healthcare systems. <i>Future Generation Computer Systems</i> , 2019 , 95, 382-391	7.5	74
74	Towards an efficient risk assessment in software projects fuzzy reinforcement paradigm. <i>Computers and Electrical Engineering</i> , 2018 , 71, 833-846	4.3	63
73	Intelligent EMG Pattern Recognition Control Method for Upper-Limb Multifunctional Prostheses: Advances, Current Challenges, and Future Prospects. <i>IEEE Access</i> , 2019 , 7, 10150-10165	3.5	60
72	A web based decision support system driven by fuzzy logic for the diagnosis of typhoid fever. <i>Expert Systems With Applications</i> , 2013 , 40, 4164-4171	7.8	57
71	Adaptive context aware decision computing paradigm for intensive health care delivery in smart cities a case analysis. <i>Sustainable Cities and Society</i> , 2018 , 41, 919-924	10.1	43
70	New photoplethysmogram indicators for improving cuffless and continuous blood pressure estimation accuracy. <i>Physiological Measurement</i> , 2018 , 39, 025005	2.9	42
69	Resolving the adverse impact of mobility on myoelectric pattern recognition in upper-limb multifunctional prostheses. <i>Computers in Biology and Medicine</i> , 2017 , 90, 76-87	7	35
68	A Robust Sparse Representation Based Pattern Recognition Approach for Myoelectric Control. <i>IEEE Access</i> , 2018 , 6, 38326-38335	3.5	34
67	Towards Efficient Decoding of Multiple Classes of Motor Imagery Limb Movements Based on EEG Spectral and Time Domain Descriptors. <i>Journal of Medical Systems</i> , 2017 , 41, 194	5.1	31
66	Towards reducing the impacts of unwanted movements on identification of motion intentions. <i>Journal of Electromyography and Kinesiology</i> , 2016 , 28, 90-8	2.5	30
65	Intelligent computing system based on pattern recognition and data mining algorithms. <i>Sustainable Computing: Informatics and Systems</i> , 2018 , 20, 192-202	3	28
64	A Genetic-Neuro-Fuzzy inferential model for diagnosis of tuberculosis. <i>Applied Computing and Informatics</i> , 2017 , 13, 27-37	4.2	26
63	Fuzzy vault-based biometric security method for tele-health monitoring systems. <i>Computers and Electrical Engineering</i> , 2018 , 71, 546-557	4.3	26
62	A Novel Technique for Fetal ECG Extraction Using Single-Channel Abdominal Recording. <i>Sensors</i> , 2017 , 17,	3.8	25
61	Towards resolving the co-existing impacts of multiple dynamic factors on the performance of EMG-pattern recognition based prostheses. <i>Computer Methods and Programs in Biomedicine</i> , 2020 , 184, 105278	6.9	23

60	Improving the Robustness of Real-Time Myoelectric Pattern Recognition against Arm Position Changes in Transradial Amputees. <i>BioMed Research International</i> , 2017 , 2017, 5090454	3	21
59	Continuous estimation of upper limb joint angle from sEMG signals based on SCA-LSTM deep learning approach. <i>Biomedical Signal Processing and Control</i> , 2020 , 61, 102024	4.9	18
58	Effective Biopotential Signal Acquisition: Comparison of Different Shielded Drive Technologies. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 276	2.6	16
57	Using a new PPG indicator to increase the accuracy of PTT-based continuous cuffless blood pressure estimation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 738-741	0.9	14
56	OMDP: An ontology-based model for diagnosis and treatment of diabetes patients in remote healthcare systems. <i>International Journal of Distributed Sensor Networks</i> , 2019 , 15, 155014771984711	1.7	14
55	Improving the Robustness of Electromyogram-Pattern Recognition for Prosthetic Control by a Postprocessing Strategy. <i>Frontiers in Neurorobotics</i> , 2017 , 11, 51	3.4	14
54	A new technique for the prediction of heart failure risk driven by hierarchical neighborhood component-based learning and adaptive multi-layer networks. <i>Future Generation Computer Systems</i> , 2020 , 110, 781-794	7.5	13
53	Motor imagery classification of upper limb movements based on spectral domain features of EEG patterns. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 2976-2979	0.9	12
52	Appropriate Mother Wavelets for Continuous Gait Event Detection Based on Time-Frequency Analysis for Hemiplegic and Healthy Individuals. <i>Sensors</i> , 2019 , 19,	3.8	10
51	Spasticity Assessment Based on the Maximum Isometrics Voluntary Contraction of Upper Limb Muscles in Post-stroke Hemiplegia. <i>Frontiers in Neurology</i> , 2019 , 10, 465	4.1	8
50	Towards image-based cancer cell lines authentication using deep neural networks. <i>Scientific Reports</i> , 2020 , 10, 19857	4.9	8
49	A Novel Time-Domain Descriptor for Improved Prediction of Upper Limb Movement Intent in EMG-PR System. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 2513-2516	0.9	8
48	An intelligent wearable device for human's cervical vertebra posture monitoring. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 3280-3283	0.9	7
47	Decoding movement intent patterns based on spatiotemporal and adaptive filtering method towards active motor training in stroke rehabilitation systems. <i>Neural Computing and Applications</i> , 2021 , 33, 4793-4806	4.8	6
46	A new EMG-based index towards the assessment of elbow spasticity for post-stroke patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 3640-3643	0.9	5
45	Spatio-Temporal Based Descriptor for Limb Movement-Intent Characterization in EMG-Pattern Recognition System. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 2637-2640	0.9	5
44	An integrated deep learning model for motor intention recognition of multi-class EEG Signals in upper limb amputees. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 206, 106121	6.9	5
43	Flexible noncontact electrodes for comfortable monitoring of physiological signals. <i>International Journal of Adaptive Control and Signal Processing</i> , 2019 , 33, 1307-1318	2.8	4

42	Appropriate Feature Set and Window Parameters Selection for Efficient Motion Intent Characterization towards Intelligently Smart EMG-PR System. <i>Symmetry</i> , 2020 , 12, 1710	2.7	4
41	The Effects of Random Stimulation Rate on Measurements of Auditory Brainstem Response. <i>Frontiers in Human Neuroscience</i> , 2020 , 14, 78	3.3	4
40	Identification of Upper-Limb Movements Based on Muscle Shape Change Signals for Human-Robot Interaction. <i>Computational and Mathematical Methods in Medicine</i> , 2020 , 2020, 5694265	2.8	4
39	Towards optimizing electrode configurations for silent speech recognition based on high-density surface electromyography. <i>Journal of Neural Engineering</i> , 2020 ,	5	4
38	A Novel Flexible Sensor for Muscle Shape Change Monitoring in Limb Motion Recognition. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 4665-4668	0.9	4
37	A Bi-Directional LSTM Network for Estimating Continuous Upper Limb Movement From Surface Electromyography. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 7217-7224	4.2	4
36	Multi-technique object tracking approach- A reinforcement paradigm. <i>Computers and Electrical Engineering</i> , 2018 , 66, 557-568	4.3	3
35	A Novel Antibacterial Membrane Electrode Based on Bacterial Cellulose/Polyaniline/AgNO Composite for Bio-Potential Signal Monitoring. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2018 , 6, 2700310	3	3
34	A pilot study on the evaluation of normal phonating function based on high-density sEMG topographic maps. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 1030-1033	0.9	3
33	Real-time classification of forearm movements based on high density surface electromyography 2017 ,		3
32	Contrast of multi-resolution analysis approach to transhumeral phantom motion decoding. <i>CAA/ Transactions on Intelligence Technology</i> , 2021 , 6, 360-375	9.7	3
31	Lagrangian-averaged vorticity deviation of spiraling blood flow in the heart during isovolumic contraction and ejection phases. <i>Medical and Biological Engineering and Computing</i> , 2021 , 59, 1417-1430 ^{3.1}		3
30	GBRAMP: A generalized backtracking regularized adaptive matching pursuit algorithm for signal reconstruction. <i>Computers and Electrical Engineering</i> , 2021 , 92, 107189	4.3	3
29	Performance of Flexible Non-contact Electrodes in Bioelectrical Signal Measurements 2019 ,		3
28	Efficient Channel Selection Approach for Motor Imaginary Classification based on Convolutional Neural Network 2018 ,		3
27	Application of noninvasive magnetomyography in labour imminency prediction for term and preterm pregnancies and ethnicity specific labour prediction. <i>Machine Learning With Applications</i> , 2021 , 5, 100066	6.5	3
26	Modulation of muscle synergies for multiple forearm movements under variant force and arm position constraints. <i>Journal of Neural Engineering</i> , 2020 , 17, 026015	5	2
25	A Fuzzy-Based Recommender System for Electronic Products Selection using UsersaRequirements and Other UsersaOpinion. <i>International Journal of Fuzzy System Applications</i> , 2015 , 4, 76-87	0.6	2

24	Realizing Efficient EMG-Based Prosthetic Control Strategy. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1101, 149-166	3.6	2
23	Efficient Classification of Motor Imagery using Particle Swarm Optimization-based Neural Network for IoT Applications 2020 ,		2
22	Enhancement of Upper Limb Movement Classification based on Wiener Filtering Technique 2021 ,		2
21	Comparing Auditory Brainstem Responses evoked by Click and Sweep-Tone in Normal-Hearing Adults. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 5237-5240	0.9	2
20	Determining the Optimal Window Parameters for Accurate and Reliable Decoding of Multiple Classes of Upper Limb Motor Imagery Tasks 2018 ,		2
19	Effect of Window Conditioning Parameters on the Classification Performance and Stability of EMG-Based Feature Extraction Methods 2018 ,		2
18	Normalization factor for the assessment of elbow spasticity with passive stretch measurement: maximum torque VS. body weight. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 388-391	0.9	2
17	Neuro-evolutionary approach for optimal selection of EEG channels in motor imagery based BCI application. <i>Biomedical Signal Processing and Control</i> , 2021 , 68, 102621	4.9	2
16	A new strategy based on feature filtering technique for improving the real-time control performance of myoelectric prostheses. <i>Biomedical Signal Processing and Control</i> , 2021 , 70, 102969	4.9	2
15	A Novel and Efficient Feature Extraction Method for Deep Learning Based Continuous Estimation. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 7341-7348	4.2	2
14	A stacked sparse auto-encoder and back propagation network model for sensory event detection via a flexible ECoG. <i>Cognitive Neurodynamics</i> , 2020 , 14, 591-607	4.2	1
13	Characterizing Multiple Patterns of Motor Intent Using Spatial-Temporal Information for Intuitively Active Motor Training in Stroke Survivors. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 2201-2204	0.9	1
12	Using Muscle Synergy to Evaluate the Neck Muscular Activities during Normal Swallowing. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 2454-2457	0.9	1
11	Reply to Comment on aNew photoplethysmogram indicators for improving cuffless and continuous blood pressure estimation accuracy <i>Physiological Measurement</i> , 2018 , 39, 098002	2.9	1
10	A study on preterm birth predictions using physiological signals, medical health record information and low-dimensional embedding methods. <i>IET Cyber-Systems and Robotics</i> , 2021 , 3, 228-244	1.6	1
9	Enhancing care strategies for preterm pregnancies by using a prediction machine to aid clinical care decisions. <i>Machine Learning With Applications</i> , 2021 , 6, 100110	6.5	1
8	Computational Intelligence Enabling the Development of Efficient Clinical Decision Support Systems: Case Study of Heart Failure 2018 , 123-133		0
7	Robustness of Muscle Synergies under Variant Muscle Contraction Force during Forearm Movements. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 3306-3309	0.9	0

6	Muscle Activity-Driven Green-Oriented Random Number Generation Mechanism to Secure WBSN Wearable Device Communications. <i>Wireless Communications and Mobile Computing</i> , 2018 , 2018, 1-11	1.9	0
5	Electromyogram-based method to secure wireless body sensor networks for rehabilitation systems. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 1246-1249	0.9	
4	Fuzzy Driven Decision Support System for Enhanced Employee Performance Appraisal. <i>International Journal of Human Capital and Information Technology Professionals</i> , 2020 , 11, 17-30	0.6	
3	Toward mapping spatiotemporal characteristics of muscle oxygenation in different motor modalities by multichannel near-infrared spectroscopy. <i>International Journal of Adaptive Control and Signal Processing</i> , 2019 , 33, 1292-1306	2.8	
2	Fuzzy Driven Decision Support System for Enhanced Employee Performance Appraisal 2021 , 1353-1366		
1	Towards optimal selection of stimuli polarity method for effective evoking auditory brainstem responses. <i>Journal of Integrative Neuroscience</i> , 2021 , 20, 297-305	1.5	