

# Noman Naseer

## List of Publications by Year in descending order

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67  
papers

2,762  
citations

361045

20  
h-index

329751

37  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1673  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hemodynamic Response Detection Using Integrated EEG-fNIRS-VPA for BCI. Computers, Materials and Continua, 2022, 70, 535-555.	1.5	1
2	LASSO Homotopy-Based Sparse Representation Classification for fNIRS-BCI. Sensors, 2022, 22, 2575.	2.1	7
3	Analyzing Classification Performance of fNIRS-BCI for Gait Rehabilitation Using Deep Neural Networks. Sensors, 2022, 22, 1932.	2.1	22
4	Non-Intrusive Load Monitoring of Buildings Using Spectral Clustering. Sensors, 2022, 22, 4036.	2.1	7
5	Brain-Controlled Lower-Limb Exoskeleton to Assist Elderly and Disabled. , 2022, , .		2
6	Advancements, Trends and Future Prospects of Lower Limb Prosthesis. IEEE Access, 2021, 9, 85956-85977.	2.6	22
7	Motor Training Using Mental Workload (MWL) With an Assistive Soft Exoskeleton System: A Functional Near-Infrared Spectroscopy (fNIRS) Study for Brain-Computer Interface (BMI). Frontiers in Neurobotics, 2021, 15, 605751.	1.6	14
8	Vector Phase Analysis Approach for Sleep Stage Classification: A Functional Near-Infrared Spectroscopy-Based Passive Brain-Computer Interface. Frontiers in Human Neuroscience, 2021, 15, 658444.	1.0	9
9	Assistive Smart Home Environment using Head Gestures and EEG Eye Blink Control Schemes. , 2021, , .		4
10	Prefrontal Cortex Activation Measured during Different Footwear and Ground Conditions Using fNIRS – A Case Study. , 2021, , .		4
11	Modeling and Analysis of Temperature Compensation for Multi-temperature Zone Sintering Furnace Temperature Sensing. International Journal of Control, Automation and Systems, 2021, 19, 2431-2443.	1.6	2
12	Convolutional neural networks ensemble model for neonatal seizure detection. Journal of Neuroscience Methods, 2021, 358, 109197.	1.3	22
13	Enhancing Classification Accuracy of Transhumeral Prosthesis: A Hybrid sEMG and fNIRS Approach. IEEE Access, 2021, 9, 113246-113257.	2.6	7
14	Improved Classification Accuracy of Four Class FNIRS-BCI. , 2020, , .		0
15	Forensic speaker recognition: A new method based on extracting accent and language information from short utterances. Forensic Science International: Digital Investigation, 2020, 34, 300982.	1.2	11
16	Characterizing the Effect of Motion Class Taxonomy on the Performance of Hand Motion Classifiers. , 2020, , .		1
17	EMG Based Control of a Quadcopter. , 2020, , .		2
18	Enhancing Classification Performance of fNIRS-BCI by Identifying Cortically Active Channels Using the z-Score Method. Sensors, 2020, 20, 6995.	2.1	15

#	ARTICLE	IF	CITATIONS
19	Cortical Tasks-Based Optimal Filter Selection: An fNIRS Study. Journal of Healthcare Engineering, 2020, 2020, 1-15.	1.1	43
20	Enhanced Accuracy for Multiclass Mental Workload Detection Using Long Short-Term Memory for Brain-Computer Interface. Frontiers in Neuroscience, 2020, 14, 584.	1.4	48
21	A Novel Roll and Pitch Estimation Approach for a Ground Vehicle Stability Improvement Using a Low Cost IMU. Sensors, 2020, 20, 340.	2.1	15
22	Analysis of Human Gait Using Hybrid EEG-fNIRS-Based BCI System: A Review. Frontiers in Human Neuroscience, 2020, 14, 613254.	1.0	36
23	Enhancing classification accuracy of fNIRS-BCI using features acquired from vector-based phase analysis. Journal of Neural Engineering, 2020, 17, 056025.	1.8	36
24	Enhancing information transfer rate of multi-class BCI system by improving classification accuracies using machine learning methods. , 2020, , .		0
25	Improving classification performance of hybrid EEG-fNIRS BCI system by channel optimization. , 2020, , .		1
26	An Adaptive Multi-Robot Therapy for Improving Joint Attention and Imitation of ASD Children. IEEE Access, 2019, 7, 81808-81825.	2.6	51
27	Enhanced Performance for Multi-Forearm Movement Decoding Using Hybrid IMU-sEMG Interface. Frontiers in Neurorobotics, 2019, 13, 43.	1.6	26
28	Traffic Light Control System for Four-Way Intersection and T-Crossing Using Fuzzy Logic. , 2019, , .		10
29	Enhanced Drowsiness Detection Using Deep Learning: An fNIRS Study. IEEE Access, 2019, 7, 137920-137929.	2.6	74
30	Electrical energy management of building using fuzzy control. , 2019, , .		3
31	Assessment and Classification of Mental Workload in the Prefrontal Cortex (PFC) Using Fixed-Value Modified Beer-Lambert Law. IEEE Access, 2019, 7, 143250-143262.	2.6	30
32	Drowsiness Detection During a Driving Task Using fNIRS. , 2019, , 79-85.		8
33	fNIRS-based Neurorobotic Interface for gait rehabilitation. Journal of NeuroEngineering and Rehabilitation, 2018, 15, 7.	2.4	76
34	EMG Based Control of Individual Fingers of Robotic Hand. , 2018, , .		6
35	Portable and Wearable Brain Technologies for Neuroenhancement and Neurorehabilitation. BioMed Research International, 2018, 2018, 1-2.	0.9	7
36	Feature points for multisensor images. Computers and Electrical Engineering, 2017, 62, 511-523.	3.0	17

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37	Optimal feature selection from fNIRS signals using genetic algorithms for BCI. <i>Neuroscience Letters</i> , 2017, 647, 61-66.	1.0	84
38	Design, fabrication and testing of an autonomously controlled electric discharge machine. , 2017, , .		0
39	Classification of normal and abnormal ECG signals based on their PQRST intervals. , 2017, , .		15
40	Enhancing Classification Performance of Functional Near-Infrared Spectroscopy- Brain-Computer Interface Using Adaptive Estimation of General Linear Model Coefficients. <i>Frontiers in Neurorobotics</i> , 2017, 11, 33.	1.6	47
41	Analysis of Different Classification Techniques for Two-Class Functional Near-Infrared Spectroscopy-Based Brain-Computer Interface. <i>Computational Intelligence and Neuroscience</i> , 2016, 2016, 1-11.	1.1	94
42	Determining Optimal Feature-Combination for LDA Classification of Functional Near-Infrared Spectroscopy Signals in Brain-Computer Interface Application. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 237.	1.0	120
43	Feature selection based on modified genetic algorithm for optimization of functional near-infrared spectroscopy (fNIRS) signals for BCI. , 2016, , .		8
44	Comparison of classification performance for fNIRS-BCI system. , 2016, , .		6
45	Reduction of Delay in Detecting Initial Dips from Functional Near-Infrared Spectroscopy Signals Using Vector-Based Phase Analysis. <i>International Journal of Neural Systems</i> , 2016, 26, 1650012.	3.2	104
46	Decoding Answers to Four-Choice Questions Using Functional near Infrared Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2015, 23, 23-31.	0.8	75
47	Commentary: Correlation of prefrontal cortical activation with changing vehicle speeds in actual driving: a vector-based functional near-infrared spectroscopy study. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 665.	1.0	4
48	Analysis of classification performance of fNIRS signals from prefrontal cortex using various temporal windows. , 2015, , .		1
49	Comparison of artificial neural network and support vector machine classifications for fNIRS-based BCI. , 2015, , .		4
50	Drowsiness detection in dorsolateral-prefrontal cortex using fNIRS for a passive-BCI. , 2015, , .		2
51	fNIRS-based brain-computer interfaces: a review. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 3.	1.0	659
52	Hybrid EEG-NIRS based BCI for quadcopter control. , 2015, , .		24
53	Motor imagery performance evaluation using hybrid EEG-NIRS for BCI. , 2015, , .		5
54	Spontaneous lie detection using functional near-infrared spectroscopy in an interactive game. , 2015, , .		2

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55	Classification of prefrontal and motor cortex signals for three-class fNIRSâ€“BCI. Neuroscience Letters, 2015, 587, 87-92.	1.0	247
56	A hybrid EEG-fNIRS BCI: Motor imagery for EEG and mental arithmetic for fNIRS. , 2014, , .		17
57	Improving classification accuracy of covert yes/no response decoding using support vector machines: An fNIRS study. , 2014, , .		18
58	Water correction algorithm to improve the classification accuracy: A near-infrared spectroscopy study. , 2014, , .		11
59	Hemodynamic signals based lie detection using a new wireless NIRS system. , 2014, , .		5
60	Online binary decision decoding using functional near-infrared spectroscopy for the development of brainâ€“computer interface. Experimental Brain Research, 2014, 232, 555-564.	0.7	203
61	fNIRS based dual movement control command generation using prefrontal brain activity. , 2014, , .		18
62	Classification of functional near-infrared spectroscopy signals corresponding to the right- and left-wrist motor imagery for development of a brainâ€“computer interface. Neuroscience Letters, 2013, 553, 84-89.	1.0	266
63	Determination of temporal window size for classifying the mean value of fNIRS signals from motor imagery. , 2013, , .		9
64	Functional near-infrared spectroscopy based discrimination of mental counting and no-control state for development of a brain-computer interface. , 2013, 2013, 1780-3.		20
65	Control system design for a prosthetic leg using series damping actuator. , 2012, , .		11
66	Functional near-infrared spectroscopy based brain activity classification for development of a brain-computer interface. , 2012, , .		11
67	Control of a prosthetic leg based on walking intentions for gait rehabilitation: an fNIRS study. Frontiers in Human Neuroscience, 0, 12, .	1.0	6