

Mohiuddin Ahmad

List of Publications by Year in descending order

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Version: 2024-02-01

178
papers

2,120
citations

361413
20
h-index

345221
36
g-index

182
all docs

182
docs citations

182
times ranked

2075
citing authors

#	ARTICLE	IF	CITATIONS
1	Human action recognition using shape and CLG-motion flow from multi-view image sequences. Pattern Recognition, 2008, 41, 2237-2252.	8.1	166
2	An adaptive level dependent wavelet thresholding for ECG denoising. Biocybernetics and Biomedical Engineering, 2014, 34, 238-249.	5.9	121
3	Postsynaptic Complexin Controls AMPA Receptor Exocytosis during LTP. Neuron, 2012, 73, 260-267.	8.1	118
4	EEG Channel Correlation Based Model for Emotion Recognition. Computers in Biology and Medicine, 2021, 136, 104757.	7.0	81
5	Polarized Targeting of Neurexins to Synapses Is Regulated by their C-Terminal Sequences. Journal of Neuroscience, 2008, 28, 12969-12981.	3.6	78
6	Emotion Recognition From EEG Signal Focusing on Deep Learning and Shallow Learning Techniques. IEEE Access, 2021, 9, 94601-94624.	4.2	77
7	HMM-based Human Action Recognition Using Multiview Image Sequences. , 2006, , .		75
8	Leucine-Rich Repeat Transmembrane Proteins Are Essential for Maintenance of Long-Term Potentiation. Neuron, 2013, 79, 439-446.	8.1	66
9	A Narrative Review on Clinical Applications of fNIRS. Journal of Digital Imaging, 2020, 33, 1167-1184.	2.9	53
10	Important Contribution of Ca^{2+} -Triggered Exocytosis of Secretory Granules. Journal of Neuroscience, 2006, 26, 10599-10613.	3.6	49
11	Neurexophilin 3 Is Highly Localized in Cortical and Cerebellar Regions and Is Functionally Important for Sensorimotor Gating and Motor Coordination. Molecular and Cellular Biology, 2005, 25, 7278-7288.	2.3	46
12	Wavelet Analysis Based Classification of Emotion from EEG Signal. , 2019, , .		45
13	Evaluating the Relationship between Permeability and Moisture Damage of Asphalt Concrete Pavements. Journal of Materials in Civil Engineering, 2015, 27, .	2.9	44
14	Selecting the optimal conditions of Savitzky-Golay filter for fNIRS signal. Biocybernetics and Biomedical Engineering, 2019, 39, 624-637.	5.9	33
15	Human Action Recognition Using Multi-View Image Sequences Features. , 0, , .		31
16	Chemical and mechanical changes in asphalt binder due to moisture conditioning. Road Materials and Pavement Design, 2018, 19, 1216-1229.	4.0	31
17	Multiclass EEG signal classification utilizing R^2 nyi min-entropy-based feature selection from wavelet packet transformation. Brain Informatics, 2020, 7, 7.	3.0	31
18	Variable silhouette energy image representations for recognizing human actions. Image and Vision Computing, 2010, 28, 814-824.	4.5	27

#	ARTICLE	IF	CITATIONS
19	Human emotion recognition using frequency & statistical measures of EEG signal. , 2013, , .		27
20	Two-step verification of brain tumor segmentation using watershed-matching algorithm. Brain Informatics, 2018, 5, 8.	3.0	27
21	Modeling and classification of voluntary and imagery movements for brain-computer interface from fNIR and EEG signals through convolutional neural network. Health Information Science and Systems, 2019, 7, 22.	5.2	23
22	The Protein Tyrosine Phosphatase MEG2 Regulates the Transport and Signal Transduction of Tropomyosin Receptor Kinase A. Journal of Biological Chemistry, 2016, 291, 23895-23905.	3.4	22
23	Prediction of Epileptic Seizure by Analysing Time Series EEG Signal Using $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{id="M1"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle k \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -NN Classifier. Applied Bionics and Biomechanics, 2017, 2017, 1-12.	1.1	22
24	Ensemble of Convolutional Neural Networks to diagnose Acute Lymphoblastic Leukemia from microscopic images. Informatics in Medicine Unlocked, 2021, 27, 100794.	3.4	22
25	Synaptic Function of Rab11Fip5: Selective Requirement for Hippocampal Long-Term Depression. Journal of Neuroscience, 2015, 35, 7460-7474.	3.6	21
26	Development of a noninvasive continuous blood pressure measurement and monitoring system. , 2012, , .		20
27	Development of low cost wireless biosignal acquisition system for ECG EMG and EOG. , 2015, , .		20
28	Assessment of the Effect of Pore Pressure Cycles on Moisture Sensitivity of Hot Mix Asphalt Using MIST Conditioning and Dynamic Modulus. Journal of Testing and Evaluation, 2014, 42, 1530-1540.	0.7	20
29	PRRT1 regulates basal and plasticity-induced AMPA receptor trafficking. Molecular and Cellular Neurosciences, 2019, 98, 155-163.	2.2	19
30	Automated detection of COVID-19 from X-ray images using CNN and Android mobile. Research on Biomedical Engineering, 2021, 37, 545-552.	2.2	18
31	Cognitive State Estimation by Effective Feature Extraction and Proper Channel Selection of EEG Signal. Journal of Circuits, Systems and Computers, 2015, 24, 1540005.	1.5	17
32	Implementation of an EOG based security system by analyzing eye movement patterns. , 2015, , .		15
33	An accurate and efficient solar tracking system using image processing and LDR sensor. , 2015, , .		15
34	Neuregulin-2 Determines Inhibitory Synaptic Transmission in the Lateral Septum to Optimize Stress-Induced Neuronal Activation and Avoidance Behavior. Biological Psychiatry, 2019, 85, 1046-1055.	1.3	15
35	Electronic energy meter with remote monitoring and billing system. , 2012, , .		14
36	A new approach of sign language recognition system for bilingual users. , 2015, , .		14

#	ARTICLE	IF	CITATIONS
37	Classification of motor imagery hands movement using levenberg-marquardt algorithm based on statistical features of EEG signal. , 2016, , .		13
38	Laboratory Performance Evaluation of Fine and Coarse-Graded Asphalt Concrete Mix. Journal of Materials in Civil Engineering, 2019, 31, .	2.9	13
39	Identification and Classification of Brain Tumor from MRI with Feature Extraction by Support Vector Machine. , 2020, , .		13
40	Derma-DOCTOR: A framework for concurrent skin lesion detection and recognition using a deep convolutional neural network with end-to-end dual encoders. Biomedical Signal Processing and Control, 2021, 68, 102661.	5.7	13
41	PHYSIOLOGICAL SIGNAL ANALYSIS FOR COGNITIVE STATE ESTIMATION. Biomedical Engineering - Applications, Basis and Communications, 2012, 24, 57-69.	0.6	12
42	Recognition of reading activity from the saccadic samples of electrooculography data. , 2015, , .		12
43	A statistical designing approach to MATLAB based functions for the ECG signal preprocessing. Iran Journal of Computer Science, 2019, 2, 167-178.	2.5	12
44	Designing an Electro-Mechanical Ventilator Based on Double CAM Integration Mechanism. , 2019, , .		12
45	Multi-Class Probabilistic Atlas-Based Whole Heart Segmentation Method in Cardiac CT and MRI. IEEE Access, 2021, 9, 66948-66964.	4.2	12
46	EEG biometrics based on small intra-individual and large inter-individual difference of extracted features. , 2016, , .		11
47	Effect of compaction procedure on air void structure of asphalt concrete. Measurement: Journal of the International Measurement Confederation, 2016, 90, 151-157.	5.0	11
48	Activation Modeling and Classification of Voluntary and Imagery Movements From the Prefrontal fNIRS Signals. IEEE Access, 2020, 8, 218215-218233.	4.2	11
49	Four-Class Motor Imagery EEG Signal Classification using PCA, Wavelet and Two-Stage Neural Network. International Journal of Advanced Computer Science and Applications, 2019, 10, .	0.7	11
50	Recognizing human actions based on silhouette energy image and global motion description. , 2008, , .		10
51	Design and simulation of cost effective wireless EEG acquisition system for patient monitoring. , 2014, , .		10
52	Frequency based EMG power spectrum analysis of Salat associated muscle contraction. , 2015, , .		10
53	Estimation of the most effective rhythm for human identification using EEG signal. , 2016, , .		10
54	Epileptic seizure classification using statistical features of EEG signal. , 2017, , .		10

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55	Cost-effectiveness analysis of chip seal with and without millings. International Journal of Pavement Engineering, 2018, 19, 893-900.	4.4	10
56	W246G Mutant ELOVL4 Impairs Synaptic Plasticity in Parallel and Climbing Fibers and Causes Motor Defects in a Rat Model of SCA34. Molecular Neurobiology, 2021, 58, 4921-4943.	4.0	10
57	Real-Time Family Member Recognition Using Raspberry Pi for Visually Impaired People. , 2020, , .		10
58	Movement related events classification from functional near infrared spectroscopic signal. , 2016, , .		9
59	Baseline wandering removal from ECG signal by wandering path finding algorithm. , 2017, , .		9
60	Estimation of important parameters of photovoltaic modules from manufacturer's datasheet. , 2012, , .		8
61	A direct noninvasive brain interface with computer based on steady-state visual-evoked potential (SSVEP) with high transfer rates. , 2013, , .		8
62	Muscle activity estimation through surface EMG analysis during salat. , 2015, , .		8
63	Lie detection from fNIR signal and NeuroImage. , 2016, , .		8
64	Evaluating the connectivity of motor area with prefrontal cortex by fNIR spectroscopy. , 2017, , .		8
65	Nose tracking cursor control for the people with disabilities: An improved HCI. , 2017, , .		8
66	Wavelet based analysis of EEG signal for evaluating mental behavior. , 2013, , .		7
67	Development of low cost wireless ECG data acquisition system. , 2015, , .		7
68	A straight forward signal processing scheme to improve effect size of fNIR signals. , 2016, , .		7
69	Effects of pore structure on oxidative aging and related mechanical properties of asphalt concrete. Construction and Building Materials, 2017, 151, 636-641.	7.2	7
70	Design and Implementation of a Smart Health Band for the Measurement of Blood Pressure, Pulse Rate and Body Temperature. , 2018, , .		7
71	Evaluating Alpha Relative Power of EEG Signal during Psychophysiological Activities in Salat. , 2018, , .		7
72	Evaluation of the fracture resistance of asphalt concrete mixes including the effect of anisotropy. International Journal of Pavement Research and Technology, 2020, 13, 121-128.	2.6	7

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73	Design and Optimization of ECG Modeling for Generating Different Cardiac Dysrhythmias. Sensors, 2021, 21, 1638.	3.8	7
74	SEI and SHI representations for human movement recognition. , 2008, , .		6
75	Design and implementation of a prototype Electrooculography based data acquisition system. , 2015, , .		6
76	Voiceless Bangla vowel recognition using sEMG signal. SpringerPlus, 2016, 5, 1522.	1.2	6
77	Identifying appropriate feature to distinguish between resting and active condition from FNIRS. , 2016, , .		6
78	A Cost-Effective Multichannel Wireless ECG Acquisition System. , 2018, , .		6
79	Design and Implementation of a Noninvasive Blood Glucose Monitoring Device. , 2018, , .		6
80	Detection of Effective Temporal Window for Classification of Motor Imagery Events from Prefrontal Hemodynamics. , 2019, , .		6
81	Virtual Image from EEG to Recognize Appropriate Emotion using Convolutional Neural Network. , 2019, , .		6
82	Classification of Motor Imagery Events from Prefrontal Hemodynamics for BCI Application. Algorithms for Intelligent Systems, 2020, , 11-23.	0.6	6
83	Noninvasive Heart Rate and Blood Glucose Level Estimation Using Photoplethysmography. , 2021, , .		6
84	Clench force estimation by surface electromyography for neural prosthesis hand. , 2012, , .		5
85	Performance variation of Building integrated photovoltaic application with tilt and azimuth angle in Bangladesh. , 2012, , .		5
86	Human emotion modeling based on salient global features of EEG signal. , 2013, , .		5
87	EEG based Brain Alertness Monitoring by Statistical and Artificial Neural Network Approach. International Journal of Advanced Computer Science and Applications, 2019, 10, .	0.7	5
88	A New Approach of a Touchless Virtual Hand for SixthSense Technology. International Journal of Computer Applications, 2015, 120, 13-18.	0.2	5
89	Determination of the effect of having energy drinks on respiratory and heart function analyzing blood perfusion signal. , 2012, , .		4
90	An efficient face detection in color images using eye mouth triangular approach. , 2012, , .		4

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91	Microcontroller based health care monitoring system using sensor network. , 2012, , .		4
92	Current Status of Skilled Clinical Engineer in Developing Countries. Procedia, Social and Behavioral Sciences, 2015, 195, 1688-1693.	0.5	4
93	Role of clinical engineering to reduce patient's risk factors in life support ventilator. , 2015, , .		4
94	Real time mouse cursor control based on bare finger movement using webcam to improve HCI. , 2015, , .		4
95	Critical Permeability Values of Asphalt Concrete for Field Cores and Laboratory-Compacted Samples. Journal of Transportation Engineering Part B: Pavements, 2017, 143, 04017013.	1.5	4
96	An Easy Approach to Develop a Digital Blood Pressure Meter. , 2019, , .		4
97	Relative SAD-based Inter Mode Decision Algorithm for H.264/AVC Video Standard. Journal of Multimedia, 2011, 6, .	0.3	4
98	Numerical Data Extraction from ECG Paper Recording Using Image Processing Technique. , 2020, , .		4
99	A combined local-global optical flow approach for cranial ultrasonogram image sequence analysis. , 2008, , .		3
100	Improvement of Medical Imaging Equipment Management in public hospitals of Bangladesh. , 2012, , .		3
101	Mental states estimation with the variation of physiological signals. , 2012, , .		3
102	Clinical engineering professional generation by interfacing public universities and health sectors of Bangladesh. , 2014, , .		3
103	Performance analysis of SSVEP based wireless Brain computer Interface for wet and dry electrode. , 2015, , .		3
104	Modeling of human emotion with effective frequency band during a test of sustained mental task. , 2015, , .		3
105	Inherent features extraction for different colors stimulation of EEG signal. , 2015, , .		3
106	Mathematical modeling of human emotions using sub-band coefficients of wavelet analysis. , 2015, , .		3
107	Design and implementation of a low cost multichannel rectified EMG acquisition system. , 2016, , .		3
108	Lie Detection from Single Feature of Functional Near Infrared Spectroscopic (fNIRS) Signals. , 2017, , .		3

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109	Multiple Regression Analysis Based Non-Invasive Blood Glucose Level Estimation Using Photoplethysmography. , 2021, , .		3
110	Evaluation of Performance Outcomes of Medical Equipment Technology Management and Patient Safety: Skilled Clinical Engineerâ€™s Approach. Global Clinical Engineering Journal, 2019, 1, 4-16.	0.4	3
111	Determination of the Effect of Having Energy Drinks by Analyzing Blood Perfusion Signal. Journal of Computers, 2014, 9, .	0.4	3
112	Wearable Multifunctional Computer Mouse Based on EMG and Gyro for Amputees. , 2020, , .		3
113	Statistical valuation of cognitive load level hemodynamics from functional near-infrared spectroscopy signals. Neuroscience Informatics, 2022, 2, 100042.	4.5	3
114	Wavelet based distortion measurement and enhancement of ECG signal. , 2012, , .		2
115	Performance parameter analysis of grid connected building integrated photovoltaic application in Bangladesh. , 2012, , .		2
116	Improvement of In-service Education and Training on Medical Imaging Equipment of Bangladesh. , 2012, , .		2
117	Design and implementation of a user independent SSVEP based brain-computer interface with high transfer rates. , 2013, , .		2
118	An efficient moving object detection and distance measurement algorithm using correlation window. , 2014, , .		2
119	Analysis of lightning surge characteristics for transmission towers. , 2014, , .		2
120	Command the computer with your eye - An electrooculography based approach. , 2014, , .		2
121	Real-time numeric character recognition system based on finger movements. , 2014, , .		2
122	Automatic detection of optic disc in fundus images by curve operator. , 2015, , .		2
123	Development of an Analytical Model to Predict the Field Permeability of Asphalt Pavements. Transportation Research Record, 2015, 2506, 149-159.	1.9	2
124	Estimation of work done in lower limb using EMG. , 2015, , .		2
125	A mathematical approach to determine the work-done from EMG analysis. , 2015, , .		2
126	An approach to estimate cognitive state with the impact of listening music on brain activity. , 2015, , .		2

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127	Determination of most effective rhythm, domain & stimulation technique for noninvasive Brain Computer Interface through SVM algorithm. , 2015, , .		2
128	Effect of diverse stimulations of brain on EEG signal for SSVEP based Brain Computer Interface. , 2015, , .		2
129	Perceptive Proposition of Combined Boosted Algorithm for Brain Tumor Segmentation. , 2016, , .		2
130	Development of a Microprocessor Based Smart and Safety Blind Glass System. , 2019, , .		2
131	Extraction of Sound Signal from Tiny Vibrations in Motion Magnified Video Using Optical Flow. , 2019, , .		2
132	Design of sEMG-based clench force estimator in FPGA using artificial neural networks. Neural Computing and Applications, 2020, 32, 15813-15823.	5.6	2
133	Cost Effective Proposal to Produce Clinical Engineering Professional to Sustain the Health Care Services of Developing Countries Such as Bangladesh. SSRG International Journal of Engineering Trends and Technology, 2015, 30, 351-355.	0.5	2
134	Human motion detection and segmentation from moving image sequences. , 2008, , .		1
135	Determination of the effect of having energy drinks using laser Doppler flowmetry. , 2012, , .		1
136	Indoor security system design and implementation using depth information. , 2013, , .		1
137	Designing interactive surface for human computer interaction using webcam. , 2014, , .		1
138	Return on investment of introducing Clinical Engineering and Technologist Professionals in Bangladesh. , 2014, , .		1
139	Channel selection and feature extraction for cognitive state estimation with the variation of brain signal. , 2014, , .		1
140	An approach for letter recognition system modeling based on prominent features of EEG. , 2015, , .		1
141	Effects of caffeine doses on cardiac activity using laser Doppler flowmetry. , 2015, , .		1
142	An approach to convert conventional screen into touch screen using image processing. , 2015, , .		1
143	Effects of elevated sleeping postures on cardiac functions analyzing electrical bio-impedance and skin blood perfusion. , 2015, , .		1
144	Number recognition using salient features of beta rhythmic EEG signal. , 2015, , .		1

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145	Alpha band dependency of EEG signal on different stimulation of brain for human computer interaction. , 2015, , .		1
146	Multiclass motor imagery classification for BCI application. , 2016, , .		1
147	Clinical engineering and healthcare delivery performance measurement: A basic model of clinical engineering department for 250 bed hospital in Bangladesh. , 2016, , .		1
148	Human-computer synergy concept: Creative development in touchless technology. , 2016, , .		1
149	A Method for Designing Emg Integrator using an FPGA. , 2017, , .		1
150	Design and Implementation of Non-invasive Continuous Blood Pressure Measurement and Monitoring System Using Photoplethysmography. , 2018, , .		1
151	Mathematical modeling of clinical engineering approach to evaluate the quality of patient care. Health and Technology, 2020, 10, 547-561.	3.6	1
152	A time-dependent vapor flow model of asphalt concrete. International Journal of Pavement Engineering, 2021, 22, 217-222.	4.4	1
153	A proposed combined Cornell-Sokolow modeling approach to determine the left ventricular hypertrophy accurately based on multi-domain information processing. IOP Conference Series: Materials Science and Engineering, 2021, 1070, 012076.	0.6	1
154	Interaction and Subcellular Association of PRRT1/SynDIG4 With AMPA Receptors. Frontiers in Synaptic Neuroscience, 2021, 13, 705664.	2.5	1
155	User Independency of SSVEP Based Brain Computer Interface Using ANN Classifier: Statistical Approach. Advances in Intelligent Systems and Computing, 2018, , 58-68.	0.6	1
156	Designing and Prototyping of an Electromechanical Ventilator based on Double CAM operation Integrated with Telemedicine Application. , 2020, , .		1
157	A CNN-based CADx Model for Pneumonia Detection from Chest Radiographs with Web Application. , 2021, , .		1
158	Global and local motion descriptions for human action recognition. , 2010, , .		0
159	Analysis and visualization of pulsation in B-mode cranial ultrasound images. , 2010, , .		0
160	Neonatal brain pulsation strength analysis using wavelet transform. , 2010, , .		0
161	A new z-scanning scheme for directional spatial prediction of AVS intra coding. , 2010, , .		0
162	A novel rate-based macroblock classification for fast mode decision in H.264 video coding. , 2011, , .		0

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163	A new fast inter mode decision algorithm in H.264/AVC video coding. , 2014, , .		0
164	Probability based fast inter mode decision algorithm for H.264/AVC video standard. , 2014, , .		0
165	Toward number recognition system: A nonstationary signal analyzing approach through SVM algorithm. , 2015, , .		0
166	EFFECTS OF ENERGY DRINK CONSUMPTION ON ELECTROCARDIOGRAPH AND PHOTO PLETHYSMOGRAPH. Jurnal Teknologi (Sciences and Engineering), 2015, 78, .	0.4	0
167	Efficient search points reduction and ranking of Motion Estimation algorithms in video coding. , 2015, , .		0
168	An efficient inter mode decision algorithm for H.264/AVC encoding optimization. , 2015, , .		0
169	Drowsiness detection for the perfection of brain computer interface using Viola-jones algorithm. , 2016, , .		0
170	Caffeine dose dependent blood perfusion: Effects on rhythmic activities using frequency spectrum. , 2016, , .		0
171	Toward letter recognition system: Determination of best wavelet and best rhythm using EEG. , 2016, , .		0
172	A novel approach to select most effective attributes for SVM algorithm. , 2016, , .		0
173	Supine vs. elevated supine postures: Comparative effects on blood ejection and perfusion. , 2016, , .		0
174	Complex hand operation recognition method using salient features of EEG. , 2016, , .		0
175	Frequency component grouping based sound source extraction from mixed audio signals using spectral analysis. , 2017, , .		0
176	Filtering Magnetic Resonance Images to Detect Brain Tumor. , 2020, , .		0
177	Development of an ECG Garment using Android Mobile. , 2021, , .		0
178	Diagnosis of Left Ventricular Hypertrophy from ECG Signals Based on CCS Methodology using SVM. , 2021, , .		0