

Mohiuddin Ahmad

List of Publications by Year in descending order

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Version: 2024-02-01

178
papers

2,120
citations

361296

20
h-index

345118

36
g-index

182
all docs

182
docs citations

182
times ranked

2075
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical valuation of cognitive load level hemodynamics from functional near-infrared spectroscopy signals. <i>Neuroscience Informatics</i> , 2022, 2, 100042.	2.8	3
2	A time-dependent vapor flow model of asphalt concrete. <i>International Journal of Pavement Engineering</i> , 2021, 22, 217-222.	2.2	1
3	Emotion Recognition From EEG Signal Focusing on Deep Learning and Shallow Learning Techniques. <i>IEEE Access</i> , 2021, 9, 94601-94624.	2.6	77
4	Multi-Class Probabilistic Atlas-Based Whole Heart Segmentation Method in Cardiac CT and MRI. <i>IEEE Access</i> , 2021, 9, 66948-66964.	2.6	12
5	Design and Optimization of ECG Modeling for Generating Different Cardiac Dysrhythmias. <i>Sensors</i> , 2021, 21, 1638.	2.1	7
6	Noninvasive Heart Rate and Blood Glucose Level Estimation Using Photoplethysmography. , 2021, , .		6
7	A proposed combined Cornell-Sokolow modeling approach to determine the left ventricular hypertrophy accurately based on multi-domain information processing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1070, 012076.	0.3	1
8	W246G Mutant ELOVL4 Impairs Synaptic Plasticity in Parallel and Climbing Fibers and Causes Motor Defects in a Rat Model of SCA34. <i>Molecular Neurobiology</i> , 2021, 58, 4921-4943.	1.9	10
9	Dermo-DOCTOR: A framework for concurrent skin lesion detection and recognition using a deep convolutional neural network with end-to-end dual encoders. <i>Biomedical Signal Processing and Control</i> , 2021, 68, 102661.	3.5	13
10	Multiple Regression Analysis Based Non-Invasive Blood Glucose Level Estimation Using Photoplethysmography. , 2021, , .		3
11	Automated detection of COVID-19 from X-ray images using CNN and Android mobile. <i>Research on Biomedical Engineering</i> , 2021, 37, 545-552.	1.5	18
12	Interaction and Subcellular Association of PRRT1/SynDIG4 With AMPA Receptors. <i>Frontiers in Synaptic Neuroscience</i> , 2021, 13, 705664.	1.3	1
13	EEG Channel Correlation Based Model for Emotion Recognition. <i>Computers in Biology and Medicine</i> , 2021, 136, 104757.	3.9	81
14	Ensemble of Convolutional Neural Networks to diagnose Acute Lymphoblastic Leukemia from microscopic images. <i>Informatics in Medicine Unlocked</i> , 2021, 27, 100794.	1.9	22
15	A CNN-based CADx Model for Pneumonia Detection from Chest Radiographs with Web Application. , 2021, , .		1
16	Development of an ECG Garment using Android Mobile. , 2021, , .		0
17	Diagnosis of Left Ventricular Hypertrophy from ECG Signals Based on CCS Methodology using SVM. , 2021, , .		0
18	Design of sEMG-based clench force estimator in FPGA using artificial neural networks. <i>Neural Computing and Applications</i> , 2020, 32, 15813-15823.	3.2	2

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19	Classification of Motor Imagery Events from Prefrontal Hemodynamics for BCI Application. Algorithms for Intelligent Systems, 2020, , 11-23.	0.5	6
20	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.	1.3	7
21	Mathematical modeling of clinical engineering approach to evaluate the quality of patient care. Health and Technology, 2020, 10, 547-561.	2.1	1
22	A Narrative Review on Clinical Applications of fNIRS. Journal of Digital Imaging, 2020, 33, 1167-1184.	1.6	53
23	Filtering Magnetic Resonance Images to Detect Brain Tumor. , 2020, , .		0
24	Identification and Classification of Brain Tumor from MRI with Feature Extraction by Support Vector Machine. , 2020, , .		13
25	Multiclass EEG signal classification utilizing R�nyi min-entropy-based feature selection from wavelet packet transformation. Brain Informatics, 2020, 7, 7.	1.8	31
26	Activation Modeling and Classification of Voluntary and Imagery Movements From the Prefrontal fNIRS Signals. IEEE Access, 2020, 8, 218215-218233.	2.6	11
27	Numerical Data Extraction from ECG Paper Recording Using Image Processing Technique. , 2020, , .		4
28	Real-Time Family Member Recognition Using Raspberry Pi for Visually Impaired People. , 2020, , .		10
29	Designing and Prototyping of an Electromechanical Ventilator based on Double CAM operation Integrated with Telemedicine Application. , 2020, , .		1
30	Wearable Multifunctional Computer Mouse Based on EMG and Gyro for Amputees. , 2020, , .		3
31	Laboratory Performance Evaluation of Fine and Coarse-Graded Asphalt Concrete Mix. Journal of Materials in Civil Engineering, 2019, 31, .	1.3	13
32	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.	3.4	23
33	Selecting the optimal conditions of Savitzky�Golay filter for fNIRS signal. Biocybernetics and Biomedical Engineering, 2019, 39, 624-637.	3.3	33
34	PRRT1 regulates basal and plasticity-induced AMPA receptor trafficking. Molecular and Cellular Neurosciences, 2019, 98, 155-163.	1.0	19
35	Detection of Effective Temporal Window for Classification of Motor Imagery Events from Prefrontal Hemodynamics. , 2019, , .		6
36	A statistical designing approach to MATLAB based functions for the ECG signal preprocessing. Iran Journal of Computer Science, 2019, 2, 167-178.	1.8	12

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37	An Easy Approach to Develop a Digital Blood Pressure Meter. , 2019, , .		4
38	Wavelet Analysis Based Classification of Emotion from EEG Signal. , 2019, , .		45
39	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.	0.7	15
40	Development of a Microprocessor Based Smart and Safety Blind Glass System. , 2019, , .		2
41	Extraction of Sound Signal from Tiny Vibrations in Motion Magnified Video Using Optical Flow. , 2019, , .		2
42	Virtual Image from EEG to Recognize Appropriate Emotion using Convolutional Neural Network. , 2019, , .		6
43	Designing an Electro-Mechanical Ventilator Based on Double CAM Integration Mechanism. , 2019, , .		12
44	EEG based Brain Alertness Monitoring by Statistical and Artificial Neural Network Approach. International Journal of Advanced Computer Science and Applications, 2019, 10, .	0.5	5
45	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, .	0.5	11
46	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.	0.5	3
47	Cost-effectiveness analysis of chip seal with and without millings. International Journal of Pavement Engineering, 2018, 19, 893-900.	2.2	10
48	Chemical and mechanical changes in asphalt binder due to moisture conditioning. Road Materials and Pavement Design, 2018, 19, 1216-1229.	2.0	31
49	Design and Implementation of Non-invasive Continuous Blood Pressure Measurement and Monitoring System Using Photoplethysmography. , 2018, , .		1
50	A Cost-Effective Multichannel Wireless ECG Acquisition System. , 2018, , .		6
51	Design and Implementation of a Noninvasive Blood Glucose Monitoring Device. , 2018, , .		6
52	Design and Implementation of a Smart Health Band for the Measurement of Blood Pressure, Pulse Rate and Body Temperature. , 2018, , .		7
53	Evaluating Alpha Relative Power of EEG Signal during Psychophysiological Activities in Salat. , 2018, , .		7
54	Two-step verification of brain tumor segmentation using watershed-matching algorithm. Brain Informatics, 2018, 5, 8.	1.8	27

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55	User Independency of SSVEP Based Brain Computer Interface Using ANN Classifier: Statistical Approach. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 58-68.	0.5	1
56	Epileptic seizure classification using statistical features of EEG signal. , 2017, , .		10
57	Critical Permeability Values of Asphalt Concrete for Field Cores and Laboratory-Compacted Samples. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2017, 143, 04017013.	0.8	4
58	A Method for Designing Emg Integrator using an FPGA. , 2017, , .		1
59	Evaluating the connectivity of motor area with prefrontal cortex by fNIR spectroscopy. , 2017, , .		8
60	Effects of pore structure on oxidative aging and related mechanical properties of asphalt concrete. <i>Construction and Building Materials</i> , 2017, 151, 636-641.	3.2	7
61	Nose tracking cursor control for the people with disabilities: An improved HCI. , 2017, , .		8
62	Frequency component grouping based sound source extraction from mixed audio signals using spectral analysis. , 2017, , .		0
63	Baseline wandering removal from ECG signal by wandering path finding algorithm. , 2017, , .		9
64	Lie Detection from Single Feature of Functional Near Infrared Spectroscopic (fNIRS) Signals. , 2017, , .		3
65	Prediction of Epileptic Seizure by Analysing Time Series EEG Signal Using $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle k \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -NN Classifier. <i>Applied Bionics and Biomechanics</i> . 2017, 2017, 1-12.	0.5	22
66	Drowsiness detection for the perfection of brain computer interface using Viola-jones algorithm. , 2016, , .		0
67	Caffeine dose dependent blood perfusion: Effects on rhythmic activities using frequency spectrum. , 2016, , .		0
68	Classification of motor imagery hands movement using levenberg-marquardt algorithm based on statistical features of EEG signal. , 2016, , .		13
69	Toward letter recognition system: Determination of best wavelet and best rhythm using EEG. , 2016, , .		0
70	Estimation of the most effective rhythm for human identification using EEG signal. , 2016, , .		10
71	Movement related events classification from functional near infrared spectroscopic signal. , 2016, , .		9
72	Design and implementation of a low cost multichannel rectified EMG acquisition system. , 2016, , .		3

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73	A novel approach to select most effective attributes for SVM algorithm. , 2016, , .		0
74	Multiclass motor imagery classification for BCI application. , 2016, , .		1
75	Clinical engineering and healthcare delivery performance measurement: A basic model of clinical engineering department for 250 bed hospital in Bangladesh. , 2016, , .		1
76	EEG biometrics based on small intra-individual and large inter-individual difference of extracted features. , 2016, , .		11
77	Supine vs. elevated supine postures: Comparative effects on blood ejection and perfusion. , 2016, , .		0
78	Human-computer synergy concept: Creative development in touchless technology. , 2016, , .		1
79	Complex hand operation recognition method using salient features of EEG. , 2016, , .		0
80	Voiceless Bangla vowel recognition using sEMG signal. SpringerPlus, 2016, 5, 1522.	1.2	6
81	Lie detection from fNIR signal and NeuroImage. , 2016, , .		8
82	Identifying appropriate feature to distinguish between resting and active condition from FNIRS. , 2016, , .		6
83	The Protein Tyrosine Phosphatase MEG2 Regulates the Transport and Signal Transduction of Tropomyosin Receptor Kinase A. Journal of Biological Chemistry, 2016, 291, 23895-23905.	1.6	22
84	Perceptive Proposition of Combined Boosted Algorithm for Brain Tumor Segmentation. , 2016, , .		2
85	A straight forward signal processing scheme to improve effect size of fNIR signals. , 2016, , .		7
86	Effect of compaction procedure on air void structure of asphalt concrete. Measurement: Journal of the International Measurement Confederation, 2016, 90, 151-157.	2.5	11
87	Toward number recognition system: A nonstationary signal analyzing approach through SVM algorithm. , 2015, , .		0
88	Automatic detection of optic disc in fundus images by curve operator. , 2015, , .		2
89	An approach for letter recognition system modeling based on prominent features of EEG. , 2015, , .		1
90	Frequency based EMG power spectrum analysis of Salat associated muscle contraction. , 2015, , .		10

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91	Implementation of an EOG based security system by analyzing eye movement patterns. , 2015, , .		15
92	Performance analysis of SSVEP based wireless Brain computer Interface for wet and dry electrode. , 2015, , .		3
93	Development of an Analytical Model to Predict the Field Permeability of Asphalt Pavements. Transportation Research Record, 2015, 2506, 149-159.	1.0	2
94	Current Status of Skilled Clinical Engineer in Developing Countries. Procedia, Social and Behavioral Sciences, 2015, 195, 1688-1693.	0.5	4
95	Modeling of human emotion with effective frequency band during a test of sustained mental task. , 2015, , .		3
96	Estimation of work done in lower limb using EMG. , 2015, , .		2
97	Development of low cost wireless ECG data acquisition system. , 2015, , .		7
98	EFFECTS OF ENERGY DRINK CONSUMPTION ON ELECTROCARDIOGRAPH AND PHOTO PLETHYSMOGRAPH. Jurnal Teknologi (Sciences and Engineering), 2015, 78, .	0.3	0
99	A mathematical approach to determine the work-done from EMG analysis. , 2015, , .		2
100	Role of clinical engineering to reduce patient's risk factors in life support ventilator. , 2015, , .		4
101	Efficient search points reduction and ranking of Motion Estimation algorithms in video coding. , 2015, , .		0
102	An efficient inter mode decision algorithm for H.264/AVC encoding optimization. , 2015, , .		0
103	Recognition of reading activity from the saccadic samples of electrooculography data. , 2015, , .		12
104	An approach to estimate cognitive state with the impact of listening music on brain activity. , 2015, , .		2
105	Effects of caffeine doses on cardiac activity using laser Doppler flowmetry. , 2015, , .		1
106	A new approach of sign language recognition system for bilingual users. , 2015, , .		14
107	Determination of most effective rhythm, domain & stimulation technique for noninvasive Brain Computer Interface through SVM algorithm. , 2015, , .		2
108	An approach to convert conventional screen into touch screen using image processing. , 2015, , .		1

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109	Inherent features extraction for different colors stimulation of EEG signal. , 2015, , .		3
110	Design and implementation of a prototype Electrooculography based data acquisition system. , 2015, , .		6
111	Real time mouse cursor control based on bare finger movement using webcam to improve HCI. , 2015, , .		4
112	Effects of elevated sleeping postures on cardiac functions analyzing electrical bio-impedance and skin blood perfusion. , 2015, , .		1
113	Number recognition using salient features of beta rhythmic EEG signal. , 2015, , .		1
114	Development of low cost wireless biosignal acquisition system for ECG EMG and EOG. , 2015, , .		20
115	An accurate and efficient solar tracking system using image processing and LDR sensor. , 2015, , .		15
116	Alpha band dependency of EEG signal on different stimulation of brain for human computer interaction. , 2015, , .		1
117	Cognitive State Estimation by Effective Feature Extraction and Proper Channel Selection of EEG Signal. Journal of Circuits, Systems and Computers, 2015, 24, 1540005.	1.0	17
118	Synaptic Function of Rab11Fip5: Selective Requirement for Hippocampal Long-Term Depression. Journal of Neuroscience, 2015, 35, 7460-7474.	1.7	21
119	Effect of diverse stimulations of brain on EEG signal for SSVEP based Brain Computer Interface. , 2015, , .		2
120	Mathematical modeling of human emotions using sub-band coefficients of wavelet analysis. , 2015, , .		3
121	Muscle activity estimation through surface EMG analysis during salat. , 2015, , .		8
122	Evaluating the Relationship between Permeability and Moisture Damage of Asphalt Concrete Pavements. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	44
123	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.	0.3	2
124	A New Approach of a Touchless Virtual Hand for SixthSense Technology. International Journal of Computer Applications, 2015, 120, 13-18.	0.2	5
125	An efficient moving object detection and distance measurement algorithm using correlation window. , 2014, , .		2
126	Designing interactive surface for human computer interaction using webcam. , 2014, , .		1

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127	Analysis of lightning surge characteristics for transmission towers. , 2014, , .		2
128	Command the computer with your eye - An electrooculography based approach. , 2014, , .		2
129	A new fast inter mode decision algorithm in H.264/AVC video coding. , 2014, , .		0
130	Clinical engineering professional generation by interfacing public universities and health sectors of Bangladesh. , 2014, , .		3
131	Return on investment of introducing Clinical Engineering and Technologist Professionals in Bangladesh. , 2014, , .		1
132	Channel selection and feature extraction for cognitive state estimation with the variation of brain signal. , 2014, , .		1
133	Real-time numeric character recognition system based on finger movements. , 2014, , .		2
134	Design and simulation of cost effective wireless EEG acquisition system for patient monitoring. , 2014, , .		10
135	An adaptive level dependent wavelet thresholding for ECG denoising. Biocybernetics and Biomedical Engineering, 2014, 34, 238-249.	3.3	121
136	Probability based fast inter mode decision algorithm for H.264/AVC video standard. , 2014, , .		0
137	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.	0.4	20
138	Determination of the Effect of Having Energy Drinks by Analyzing Blood Perfusion Signal. Journal of Computers, 2014, 9, .	0.4	3
139	Leucine-Rich Repeat Transmembrane Proteins Are Essential for Maintenance of Long-Term Potentiation. Neuron, 2013, 79, 439-446.	3.8	66
140	A direct noninvasive brain interface with computer based on steady-state visual-evoked potential (SSVEP) with high transfer rates. , 2013, , .		8
141	Design and implementation of a user independent SSVEP based brain-computer interface with high transfer rates. , 2013, , .		2
142	Wavelet based analysis of EEG signal for evaluating mental behavior. , 2013, , .		7
143	Human emotion recognition using frequency & statistical measures of EEG signal. , 2013, , .		27
144	Indoor security system design and implementation using depth information. , 2013, , .		1

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145	Human emotion modeling based on salient global features of EEG signal. , 2013, , .		5
146	PHYSIOLOGICAL SIGNAL ANALYSIS FOR COGNITIVE STATE ESTIMATION. Biomedical Engineering - Applications, Basis and Communications, 2012, 24, 57-69.	0.3	12
147	Determination of the effect of having energy drinks on respiratory and heart function analyzing blood perfusion signal. , 2012, , .		4
148	Wavelet based distortion measurement and enhancement of ECG signal. , 2012, , .		2
149	Clench force estimation by surface electromyography for neural prosthesis hand. , 2012, , .		5
150	Performance parameter analysis of grid connected building integrated photovoltaic application in Bangladesh. , 2012, , .		2
151	Improvement of In-service Education and Training on Medical Imaging Equipment of Bangladesh. , 2012, , .		2
152	Determination of the effect of having energy drinks using laser Doppler flowmetry. , 2012, , .		1
153	Performance variation of Building integrated photovoltaic application with tilt and azimuth angle in Bangladesh. , 2012, , .		5
154	Improvement of Medical Imaging Equipment Management in public hospitals of Bangladesh. , 2012, , .		3
155	An efficient face detection in color images using eye mouth triangular approach. , 2012, , .		4
156	Microcontroller based health care monitoring system using sensor network. , 2012, , .		4
157	Mental states estimation with the variation of physiological signals. , 2012, , .		3
158	Electronic energy meter with remote monitoring and billing system. , 2012, , .		14
159	Development of a noninvasive continuous blood pressure measurement and monitoring system. , 2012, , .		20
160	Estimation of important parameters of photovoltaic modules from manufacturer's datasheet. , 2012, , .		8
161	Postsynaptic Complexin Controls AMPA Receptor Exocytosis during LTP. Neuron, 2012, 73, 260-267.	3.8	118
162	A novel rate-based macroblock classification for fast mode decision in H.264 video coding. , 2011, , .		0

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163	Relative SAD-based Inter Mode Decision Algorithm for H.264/AVC Video Standard. Journal of Multimedia, 2011, 6, .	0.3	4
164	Variable silhouette energy image representations for recognizing human actions. Image and Vision Computing, 2010, 28, 814-824.	2.7	27
165	Global and local motion descriptions for human action recognition. , 2010, , .		0
166	Analysis and visualization of pulsation in B-mode cranial ultrasound images. , 2010, , .		0
167	Neonatal brain pulsation strength analysis using wavelet transform. , 2010, , .		0
168	A new z-scanning scheme for directional spatial prediction of AVS intra coding. , 2010, , .		0
169	Human action recognition using shape and CLG-motion flow from multi-view image sequences. Pattern Recognition, 2008, 41, 2237-2252.	5.1	166
170	Recognizing human actions based on silhouette energy image and global motion description. , 2008, , .		10
171	Human motion detection and segmentation from moving image sequences. , 2008, , .		1
172	A combined local-global optical flow approach for cranial ultrasonogram image sequence analysis. , 2008, , .		3
173	Polarized Targeting of Neurexins to Synapses Is Regulated by their C-Terminal Sequences. Journal of Neuroscience, 2008, 28, 12969-12981.	1.7	78
174	SEI and SHI representations for human movement recognition. , 2008, , .		6
175	Important Contribution of \hat{A} -Neurexins to Ca^{2+} -Triggered Exocytosis of Secretory Granules. Journal of Neuroscience, 2006, 26, 10599-10613.	1.7	49
176	HMM-based Human Action Recognition Using Multiview Image Sequences. , 2006, , .		75
177	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.	1.1	46
178	Human Action Recognition Using Multi-View Image Sequences Features. , 0, , .		31