

Muhammad Enamul Hoque Chowdhury

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101 papers	1,700 citations	16 h-index	38 g-index
114 ext. papers	3,224 ext. citations	4 avg, IF	5.52 L-index

#	Paper	IF	Citations
101	. <i>IEEE Access</i> , 2020 , 8, 132665-132676	3.5	43 ¹
100	Exploring the effect of image enhancement techniques on COVID-19 detection using chest X-ray images. <i>Computers in Biology and Medicine</i> , 2021 , 132, 104319	7	127
99	Transfer Learning with Deep Convolutional Neural Network (CNN) for Pneumonia Detection Using Chest X-ray. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3233	2.6	116
98	Reference layer artefact subtraction (RLAS): a novel method of minimizing EEG artefacts during simultaneous fMRI. <i>NeuroImage</i> , 2014 , 84, 307-19	7.9	71
97	Estimating Blood Pressure from the Photoplethysmogram Signal and Demographic Features Using Machine Learning Techniques. <i>Sensors</i> , 2020 , 20,	3.8	59
96	. <i>IEEE Access</i> , 2020 , 8, 191586-191601	3.5	57
95	Real-Time Smart-Digital Stethoscope System for Heart Diseases Monitoring. <i>Sensors</i> , 2019 , 19,	3.8	56
94	Machine Learning Based Photovoltaics (PV) Power Prediction Using Different Environmental Parameters of Qatar. <i>Energies</i> , 2019 , 12, 2782	3.1	49
93	Wearable Real-Time Heart Attack Detection and Warning System to Reduce Road Accidents. <i>Sensors</i> , 2019 , 19,	3.8	41
92	. <i>IEEE Access</i> , 2020 , 8, 148793-148811	3.5	38
91	A Systematic Approach to the Design and Characterization of A Smart Insole for Detecting Vertical Ground Reaction Force (vGRF) in Gait Analysis. <i>Sensors</i> , 2020 , 20,	3.8	33
90	Targeting SARS-CoV2 Spike Protein Receptor Binding Domain by Therapeutic Antibodies. <i>Biomedicine and Pharmacotherapy</i> , 2020 , 130, 110559	7.5	29
89	An Early Warning Tool for Predicting Mortality Risk of COVID-19 Patients Using Machine Learning. <i>Cognitive Computation</i> , 2021 , 1-16	4.4	26
88	Convolutional Sparse Support Estimator-Based COVID-19 Recognition From X-Ray Images. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 1810-1820	10.3	23
87	Detection and Severity Classification of COVID-19 in CT Images Using Deep Learning. <i>Diagnostics</i> , 2021 , 11,	3.8	19
86	Automatic and Reliable Leaf Disease Detection Using Deep Learning Techniques. <i>AgriEngineering</i> , 2021 , 3, 294-312	2.2	19
85	Portable System for Monitoring and Controlling Driver Behavior and the Use of a Mobile Phone While Driving. <i>Sensors</i> , 2019 , 19,	3.8	16

84	COVID-19 infection map generation and detection from chest X-ray images. <i>Health Information Science and Systems</i> , 2021 , 9, 15	5.1	15
83	A machine learning model for early detection of diabetic foot using thermogram images. <i>Computers in Biology and Medicine</i> , 2021 , 137, 104838	7	15
82	A review of deep learning-based detection methods for COVID-19.. <i>Computers in Biology and Medicine</i> , 2022 , 143, 105233	7	14
81	Design and parametric analysis of a wide-angle polarization-insensitive metamaterial absorber with a star shape resonator for optical wavelength applications. <i>Results in Physics</i> , 2020 , 18, 103259	3.7	14
80	Test implementation of a sensor device for measuring soil macronutrients 2015 ,		13
79	Case Study to Analyze the Impact of Multi-Course Project-Based Learning Approach on Education for Sustainable Development. <i>Sustainability</i> , 2020 , 12, 480	3.6	13
78	A Low Noise Capacitive Electromyography Monitoring System for Remote Healthcare Applications. <i>IEEE Sensors Journal</i> , 2020 , 20, 3333-3342	4	13
77	Design, Construction and Testing of IoT Based Automated Indoor Vertical Hydroponics Farming Test-Bed in Qatar. <i>Sensors</i> , 2020 , 20,	3.8	13
76	An Intelligent and Low-Cost Eye-Tracking System for Motorized Wheelchair Control. <i>Sensors</i> , 2020 , 20,	3.8	13
75	Modified-Segmented Split-Ring Based Polarization and Angle-Insensitive Multi-Band Metamaterial Absorber for X, Ku and K Band Applications. <i>IEEE Access</i> , 2020 , 8, 144051-144063	3.5	12
74	. <i>IEEE Access</i> , 2020 , 8, 185698-185724	3.5	12
73	Simultaneous EEG-fMRI: evaluating the effect of the cabling configuration on the gradient artefact. <i>Physics in Medicine and Biology</i> , 2015 , 60, N241-50	3.8	10
72	COV-ECGNET: COVID-19 detection using ECG trace images with deep convolutional neural network.. <i>Health Information Science and Systems</i> , 2022 , 10, 1	5.1	10
71	Multimodal EEG and Keystroke Dynamics Based Biometric System Using Machine Learning Algorithms. <i>IEEE Access</i> , 2021 , 9, 94625-94643	3.5	10
70	A Low-Cost Closed-Loop Solar Tracking System Based on the Sun Position Algorithm. <i>Journal of Sensors</i> , 2019 , 2019, 1-11	2	9
69	COVID-19 infection localization and severity grading from chest X-ray images. <i>Computers in Biology and Medicine</i> , 2021 , 139, 105002	7	9
68	Custom Hardware Architectures for Deep Learning on Portable Devices: A Review. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	9
67	. <i>IEEE Access</i> , 2021 , 9, 41052-41065	3.5	9

66	Performance analysis of noninvasive electrophysiological methods for the assessment of diabetic sensorimotor polyneuropathy in clinical research: a systematic review and meta-analysis with trial sequential analysis. <i>Scientific Reports</i> , 2020 , 10, 21770	4.9	8
65	Exploring the origins of EEG motion artefacts during simultaneous fMRI acquisition: Implications for motion artefact correction. <i>NeuroImage</i> , 2018 , 173, 188-198	7.9	8
64	SNG and DNG meta-absorber with fractional absorption band for sensing application. <i>Scientific Reports</i> , 2020 , 10, 13086	4.9	8
63	Cross coupled interlinked split ring resonator based epsilon negative metamaterial with high effective medium ratio for multiband satellite and radar communications. <i>Results in Physics</i> , 2020 , 18, 103296	3.7	8
62	A Portable Electromagnetic Head Imaging System Using Metamaterial Loaded Compact Directional 3D Antenna. <i>IEEE Access</i> , 2021 , 9, 50893-50906	3.5	8
61	Development and Validation of an Early Scoring System for Prediction of Disease Severity in COVID-19 Using Complete Blood Count Parameters. <i>IEEE Access</i> , 2021 , 9, 120422-120441	3.5	8
60	Diabetic Sensorimotor Polyneuropathy Severity Classification Using Adaptive Neuro Fuzzy Inference System. <i>IEEE Access</i> , 2021 , 9, 7618-7631	3.5	8
59	A YOLOv3 Deep Neural Network Model to Detect Brain Tumor in Portable Electromagnetic Imaging System. <i>IEEE Access</i> , 2021 , 9, 82647-82660	3.5	8
58	Tribo-mechanical properties evaluation of HA/TiO/CNT nanocomposite. <i>Scientific Reports</i> , 2021 , 11, 18674.9	4.9	8
57	Mortality Prediction Utilizing Blood Biomarkers to Predict the Severity of COVID-19 Using Machine Learning Technique. <i>Diagnostics</i> , 2021 , 11,	3.8	8
56	A Novel Non-Invasive Estimation of Respiration Rate From Motion Corrupted Photoplethysmograph Signal Using Machine Learning Model. <i>IEEE Access</i> , 2021 , 9, 96775-96790	3.5	8
55	Fire-Detectors Review and Design of an Automated, Quick Responsive Fire-Alarm System Based on SMS. <i>International Journal of Communications, Network and System Sciences</i> , 2014 , 07, 386-395	0.2	7
54	Depot fluphenazine and flupenthixol in the treatment of stabilized schizophrenics. A double-blind comparative trial. <i>Comprehensive Psychiatry</i> , 1980 , 21, 135-9	7.3	7
53	Review on Medical Implantable Antenna Technology and Imminent Research Challenges. <i>Sensors</i> , 2021 , 21,	3.8	7
52	Angle-insensitive co-polarized metamaterial absorber based on equivalent circuit analysis for dual band WiFi applications. <i>Scientific Reports</i> , 2021 , 11, 13791	4.9	7
51	A Planar Ultrawideband Patch Antenna Array for Microwave Breast Tumor Detection. <i>Materials</i> , 2020 , 13,	3.5	6
50	Design and Implementation of a RF Based Anti-Drone System 2020 ,		6
49	Investigating the effect of modifying the EEG cap lead configuration on the gradient artifact in simultaneous EEG-fMRI. <i>Frontiers in Neuroscience</i> , 2014 , 8, 226	5.1	6

48	A Case Study to Identify the Hindrances to Widespread Adoption of Electric Vehicles in Qatar. <i>Energies</i> , 2020 , 13, 3994	3.1	6
47	Synthesis and characterization of Mg-Zn ferrite based flexible microwave composites and its application as SNG metamaterial. <i>Scientific Reports</i> , 2021 , 11, 7654	4.9	6
46	Effects of titanium and carbon nanotubes on nano/micromechanical properties of HA/TNT/CNT nanocomposites. <i>Applied Surface Science</i> , 2021 , 538, 148123	6.7	6
45	Robust R-Peak Detection in Low-Quality Holter ECGs using 1D Convolutional Neural Network. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , PP,	5	6
44	Effects of the Phantom Shape on the Gradient Artefact of Electroencephalography (EEG) Data in Simultaneous EEG-fMRI. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1969	2.6	6
43	Deep learning based classification of unsegmented phonocardiogram spectrograms leveraging transfer learning. <i>Physiological Measurement</i> , 2021 , 42,	2.9	6
42	Simultaneous EEG-fMRI: Evaluating the Effect of the EEG Cap-Cabling Configuration on the Gradient Artifact. <i>Frontiers in Neuroscience</i> , 2019 , 13, 690	5.1	5
41	EDITH : ECG Biometrics Aided by Deep Learning for Reliable Individual Authentication. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2021 , 1-13	4.1	5
40	Deep Learning for Reliable Classification of COVID-19, MERS, and SARS from Chest X-ray Images.. <i>Cognitive Computation</i> , 2022 , 1-21	4.4	5
39	QCovSML: A reliable COVID-19 detection system using CBC biomarkers by a stacking machine learning model.. <i>Computers in Biology and Medicine</i> , 2022 , 143, 105284	7	5
38	Machine Learning in Wearable Biomedical Systems		5
37	A mutual coupled concentric crossed-Line split ring resonator (CCSRR) based epsilon negative (ENG) metamaterial for Tri-band microwave applications. <i>Results in Physics</i> , 2020 , 18, 103292	3.7	5
36	Performance Analysis of Conventional Machine Learning Algorithms for Diabetic Sensorimotor Polyneuropathy Severity Classification. <i>Diagnostics</i> , 2021 , 11,	3.8	5
35	Analysis of visual cortex-event-related fMRI data using ICA decomposition. <i>International Journal of Biomedical Engineering and Technology</i> , 2011 , 7, 365	1.3	4
34	Bangla Sign Language (BdSL) Alphabets and Numerals Classification Using a Deep Learning Model.. <i>Sensors</i> , 2022 , 22,	3.8	4
33	A biomarker based severity progression indicator for COVID-19: the Kuwait prognosis indicator score. <i>Biomarkers</i> , 2020 , 25, 641-648	2.6	4
32	Microwave Breast Imaging Using Compressed Sensing Approach of Iteratively Corrected Delay Multiply and Sum Beamforming. <i>Diagnostics</i> , 2021 , 11,	3.8	4
31	Inductively tuned modified split ring resonator based quad band epsilon negative (ENG) with near zero index (NZI) metamaterial for multiband antenna performance enhancement. <i>Scientific Reports</i> , 2021 , 11, 11950	4.9	4

30	Reference Layer Artefact Subtraction (RLAS): Electromagnetic Simulations. <i>IEEE Access</i> , 2019 , 7, 17882-17895	4.7	4
29	Estimating the Relative Crystallinity of Biodegradable Polylactic Acid and Polyglycolide Polymer Composites by Machine Learning Methodologies.. <i>Polymers</i> , 2022 , 14,	4.5	3
28	Wind Power Integration with Smart Grid and Storage System: Prospects and Limitations. <i>International Journal of Advanced Computer Science and Applications</i> , 2020 , 11,	1.7	3
27	Brain MR Image Enhancement for Tumor Segmentation Using 3D U-Net. <i>Sensors</i> , 2021 , 21,	3.8	3
26	A New Wearable ECG Monitor Evaluation and Experimental Analysis: Proof of Concept 2020 ,		3
25	Characterization of capacitive electromyography biomedical sensor insulated with porous medical bandages. <i>Scientific Reports</i> , 2020 , 10, 14891	4.9	3
24	Case Study of Multi-Course Project-Based Learning and Online Assessment in Electrical Engineering Courses during COVID-19 Pandemic. <i>Sustainability</i> , 2022 , 14, 5056	3.6	3
23	Surround-Screen Mobile based Projection: Design and Implementation of Mobile Cave Virtual Reality. <i>IEEE Access</i> , 2017 , 1-1	3.5	2
22	Broadband over Power Line (BPL): An Emerging Technology for Bangladesh. <i>International Journal of Communications, Network and System Sciences</i> , 2014 , 07, 346-354	0.2	2
21	Tomato Leaf Diseases Detection Using Deep Learning Technique		2
20	Photo-Voltaic (PV) Monitoring System, Performance Analysis and Power Prediction Models in Doha, Qatar		2
19	Thermal Change Index-Based Diabetic Foot Thermogram Image Classification Using Machine Learning Techniques.. <i>Sensors</i> , 2022 , 22,	3.8	2
18	Deep learning techniques for liver and liver tumor segmentation: A review. <i>Computers in Biology and Medicine</i> , 2022 , 147, 105620	7	2
17	Analysis of Morphological Brain Change of Alzheimer Disease (AD) Patients. <i>Applied Physics Research</i> , 2010 , 2,	1.3	1
16	Robust biometric system using session invariant multimodal EEG and keystroke dynamics by the ensemble of self-ONNs.. <i>Computers in Biology and Medicine</i> , 2022 , 142, 105238	7	1
15	An investigation to study the effects of Tai Chi on human gait dynamics using classical machine learning.. <i>Computers in Biology and Medicine</i> , 2022 , 142, 105184	7	1
14	A nomogram-based diabetic sensorimotor polyneuropathy severity prediction using Michigan neuropathy screening instrumentations. <i>Computers in Biology and Medicine</i> , 2021 , 139, 104954	7	1
13	Finite Element Analysis of the Mechanism of Traumatic Aortic Rupture (TAR). <i>Computational and Mathematical Methods in Medicine</i> , 2020 , 2020, 6718495	2.8	1

12	Instrumented Hip Implant: A Review. <i>IEEE Sensors Journal</i> , 2021 , 21, 7179-7194	4	1
11	Quad-band flexible magnesium zinc ferrite (MgZnFe ₂ O ₄)-based double negative metamaterial for microwave applications <i>Chinese Journal of Physics</i> , 2021 , 71, 351-364	3.5	1
10	HipXNet: Deep Learning Approaches to Detect Aseptic Loos-ening of Hip Implants using X-Ray Images. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
9	A Comprehensive Review and the Efficiency Analysis of Horizontal and Vertical Axis Wind Turbines. <i>European Journal of Sustainable Development Research</i> , 2021 , 5, em0163	1.6	0
8	Investigating the effect of materials and structures for negative pressure ventilators suitable for pandemic situation. <i>Emergent Materials</i> , 2021 , 4, 1-15	3.5	0
7	. <i>IEEE Access</i> , 2021 , 9, 59148-59159	3.5	0
6	Motion Artifacts Correction From EEG and fNIRS Signals Using Novel Multiresolution Analysis. <i>IEEE Access</i> , 2022 , 10, 29760-29777	3.5	0
5	Performance Analysis of Conventional Machine Learning Algorithms for Diabetic Sensorimotor Polyneuropathy Severity Classification Using Nerve Conduction Studies.. <i>Computational Intelligence and Neuroscience</i> , 2022 , 2022, 9690940	3	0
4	A Novel Machine Learning Approach for Severity Classification of Diabetic Foot Complications Using Thermogram Images. <i>Sensors</i> , 2022 , 22, 4249	3.8	0
3	Corrigendum to A Low-Cost Closed-Loop Solar Tracking System Based on the Sun Position Algorithm <i>Journal of Sensors</i> , 2019 , 2019, 1-1	2	
2	Future Techniques and Perspectives on Implanted and Wearable Heart Failure Detection Devices 2022 , 295-319		
1	Wearable Real-Time Epileptic Seizure Detection and Warning System 2022 , 233-265		