

# Shaikh Anowarul Fattah

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1480537/publications.pdf>

Version: 2024-02-01

125  
papers

1,610  
citations

516710

16  
h-index

414414

32  
g-index

125  
all docs

125  
docs citations

125  
times ranked

1401  
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated Heart Valve Disorder Detection Based on PDF Modeling of Formant Variation Pattern in PCG Signal. IEEE Access, 2022, 10, 27330-27342.	4.2	5
2	Multistage Adaptive Noise Cancellation Scheme for Heart Rate Estimation From PPG Signal Utilizing Mode Based Decomposition of Acceleration Data. IEEE Access, 2022, 10, 59759-59771.	4.2	0
3	Seizure activity classification based on bimodal Gaussian modeling of the gamma and theta band IMFs of EEG signals. Biomedical Signal Processing and Control, 2021, 64, 102273.	5.7	10
4	PolypSegNet: A modified encoder-decoder architecture for automated polyp segmentation from colonoscopy images. Computers in Biology and Medicine, 2021, 128, 104119.	7.0	56
5	A Novel Multi-Stage Training Approach for Human Activity Recognition From Multimodal Wearable Sensor Data Using Deep Neural Network. IEEE Sensors Journal, 2021, 21, 1715-1726.	4.7	28
6	An integrated autoencoder-based hybrid CNN-LSTM model for COVID-19 severity prediction from lung ultrasound. Computers in Biology and Medicine, 2021, 132, 104296.	7.0	57
7	CovSegNet: A Multi Encoder–Decoder Architecture for Improved Lesion Segmentation of COVID-19 Chest CT Scans. IEEE Transactions on Artificial Intelligence, 2021, 2, 283-297.	4.7	12
8	SpecMEn-DL: spectral mask enhancement with deep learning models to predict COVID-19 from lung ultrasound videos. Health Information Science and Systems, 2021, 9, 28.	5.2	10
9	CovTANet: A Hybrid Tri-Level Attention-Based Network for Lesion Segmentation, Diagnosis, and Severity Prediction of COVID-19 Chest CT Scans. IEEE Transactions on Industrial Informatics, 2021, 17, 6489-6498.	11.3	31
10	Sleep Apnea Detection From Variational Mode Decomposed EEG Signal Using a Hybrid CNN-BiLSTM. IEEE Access, 2021, 9, 102355-102367.	4.2	14
11	AutoCovNet: Unsupervised feature learning using autoencoder and feature merging for detection of COVID-19 from chest X-ray images. Biocybernetics and Biomedical Engineering, 2021, 41, 1685-1701.	5.9	17
12	Epileptic seizure detection in EEG signals using normalized IMFs in CEEMDAN domain and quadratic discriminant classifier. Biomedical Signal Processing and Control, 2020, 58, 101833.	5.7	18
13	Automated Brain Tumor Segmentation Based on Multi-Planar Superpixel Level Features Extracted From 3D MR Images. IEEE Access, 2020, 8, 25335-25349.	4.2	29
14	A Sub-frame Based Feature Extraction Approach from Split-Band EEG Signal for Sleep Apnea Event Detection Using Multi-Layer LSTM. , 2020, , .		2
15	Analog Signal Processing Based Hardware Implementation of Real-Time Audio Visualizer. , 2020, , .		2
16	DeepArrNet: An Efficient Deep CNN Architecture for Automatic Arrhythmia Detection and Classification From Denoised ECG Beats. IEEE Access, 2020, 8, 104788-104800.	4.2	41
17	Least Square Saliency Transformation of Capsule Endoscopy Images for PDF Model Based Multiple Gastrointestinal Disease Classification. IEEE Access, 2020, 8, 58509-58521.	4.2	12
18	An efficient feature extraction scheme for classification of mental tasks based on inter-channel correlation in wavelet domain utilizing EEG signal. Biomedical Signal Processing and Control, 2020, 61, 102033.	5.7	6

#	ARTICLE	IF	CITATIONS
19	CovXNet: A multi-dilation convolutional neural network for automatic COVID-19 and other pneumonia detection from chest X-ray images with transferable multi-receptive feature optimization. Computers in Biology and Medicine, 2020, 122, 103869.	7.0	356
20	Multiple Linear Discriminant Models for Extracting Salient Characteristic Patterns in Capsule Endoscopy Images for Multi-Disease Detection. IEEE Journal of Translational Engineering in Health and Medicine, 2020, 8, 1-11.	3.7	14
21	Deep Convolutional Neural Network Based Sleep Apnea Detection Scheme Using Spectro-temporal Subframes of EEG Signal. , 2020, , .		2
22	An Automatic Ocular Disease Detection Scheme from Enhanced Fundus Images Based on Ensembling Deep CNN Networks. , 2020, , .		8
23	DeepBanglaNet: A Deep Convolutional Neural Network to Recognize Bengali Handwritten Digits. , 2020, , .		2
24	ResCovNet: A Deep Learning-Based Architecture For COVID-19 Detection From Chest CT Scan Images. , 2020, , .		3
25	Transfer Learning Based Method for COVID-19 Detection From Chest X-ray Images. , 2020, , .		8
26	Sleep Apnea Detection Based on Rician Modeling of Feature Variation in Multiband EEG Signal. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1066-1074.	6.3	41
27	Automatic detection of sleep apnea events based on inter-band energy ratio obtained from multi-band EEG signal. Healthcare Technology Letters, 2019, 6, 82-86.	3.3	18
28	Probability density function based modeling of spatial feature variation in capsule endoscopy data for automatic bleeding detection. Computers in Biology and Medicine, 2019, 115, 103478.	7.0	12
29	Application of Electrical Network Frequency of Digital Recordings for Location-Stamp Verification. Applied Sciences (Switzerland), 2019, 9, 3135.	2.5	5
30	Bangla Sign Language Recognition with Skin Segmentation and Binary Masking. , 2019, , .		9
31	A Spectral Centroid Based Analysis of Heart sounds for Disease Detection Using Machine Learning. , 2019, , .		2
32	Image-based Bengali Sign Language Alphabet Recognition for Deaf and Dumb Community. , 2019, , .		22
33	Complete Automation of an E-commerce System with Internet of Things. , 2019, , .		2
34	Eye Gaze Controlled Immersive Video Navigation System for Disabled People. , 2019, , .		4
35	A Machine Learning based Human Activity Recognition during Physical Exercise using Wavelet Packet Transform of PPG and Inertial Sensors data. , 2019, , .		2
36	Automated Brain Tumor Segmentation from MRI Data Based on Local Region Analysis. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
37	Real Time Sleep Apnea Event Detection with Deep Neural Network. , 2019, , .		0
38	ALS Detection Based on T-Location Scale Statistical Modeling of the DWT Coefficients of EMG Signals. , 2019, , .		0
39	ECGDeepNET: A Deep Learning approach for classifying ECG beats. , 2019, , .		5
40	Seizure and Non-Seizure EEG Signals Detection Using 1-D Convolutional Neural Network Architecture of Deep Learning Algorithm. , 2019, , .		13
41	Phonocardiogram Heartbeat Segmentation and Autoregressive Modeling for Person Identification. , 2019, , .		2
42	Unmanned Floating Waste Collecting Robot. , 2019, , .		19
43	SPECMAR: fast heart rate estimation from PPG signal using a modified spectral subtraction scheme with composite motion artifacts reference generation. Medical and Biological Engineering and Computing, 2019, 57, 689-702.	2.8	19
44	Cascade and parallel combination (CPC) of adaptive filters for estimating heart rate during intensive physical exercise from photoplethysmographic signal. Healthcare Technology Letters, 2018, 5, 18-24.	3.3	17
45	CHOBS: Color Histogram of Block Statistics for Automatic Bleeding Detection in Wireless Capsule Endoscopy Video. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-12.	3.7	42
46	Cluster based statistical feature extraction method for automatic bleeding detection in wireless capsule endoscopy video. Computers in Biology and Medicine, 2018, 94, 41-54.	7.0	19
47	Automatic Computer Aided Bleeding Detection Scheme for Wireless Capsule Endoscopy (WCE) Video Based on Higher and Lower Order Statistical Features in a Composite Color. Journal of Medical and Biological Engineering, 2018, 38, 482-496.	1.8	12
48	Configurable Digital Hearing Aid System with Reduction of Noise for Speech Enhancement Using Spectral Subtraction Method and Frequency Dependent Amplification. , 2018, , .		1
49	Real-Time American Sign Language Recognition Using Skin Segmentation and Image Category Classification with Convolutional Neural Network and Deep Learning. , 2018, , .		28
50	A Low-cost Venturi Tube Spirometer for the Diagnosis of COPD. , 2018, , .		4
51	VMD-RiM: Rician Modeling of Temporal Feature Variation Extracted From Variational Mode Decomposed EEG Signal for Automatic Sleep Apnea Detection. IEEE Access, 2018, 6, 77440-77453.	4.2	12
52	Location Identification Using Power and Audio Data Based on Temporal Variation of Electric Network Frequency and Its Harmonics. , 2018, , .		1
53	Text to Braille Scanner with Ultra Low Cost Refreshable Braille Display. , 2018, , .		7
54	An Automatic Bleeding Frame and Region Detection Scheme for Wireless Capsule Endoscopy Videos Based on Interplane Intensity Variation Profile in Normalized RGB Color Space. Journal of Healthcare Engineering, 2018, 2018, 1-12.	1.9	24

#	ARTICLE	IF	CITATIONS
55	A time-frequency domain approach of heart rate estimation from photoplethysmographic (PPG) signal. Biomedical Signal Processing and Control, 2017, 36, 146-154.	5.7	44
56	Noise Robust Formant Frequency Estimation Method Based on Spectral Model of Repeated Autocorrelation of Speech. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1357-1370.	5.8	7
57	Classification of seizure and non-seizure activity in seizure patients using time-frequency domain processing of gamma band EEG signals. , 2017, , .		4
58	Real time hand movement controlled robotic arm for risk prevention. , 2017, , .		6
59	Detection of anemia from image of the anterior conjunctiva of the eye by image processing and thresholding. , 2017, , .		30
60	Robust single finger movement detection scheme for real time wheelchair control by physically challenged people. , 2017, , .		9
61	Design of a low cost anti-theft sensor for motorcycle security device. , 2017, , .		5
62	Efficient approaches for accuracy improvement of breast cancer classification using wisconsin database. , 2017, , .		15
63	Stetho-phone: Low-cost digital stethoscope for remote personalized healthcare. , 2017, , .		13
64	A cost effective GPS guided autonomous object transporter robot for disaster management and industrial automation. , 2017, , .		5
65	Automated brain tumor segmentation from mri data based on exploration of histogram characteristics of the cancerous hemisphere. , 2017, , .		8
66	Real time injecting device with automated robust vein detection using near infrared camera and live video. , 2017, , .		11
67	Low-cost EEG based electric wheelchair with advanced control features. , 2017, , .		14
68	Wrist-card: PPG sensor based wrist wearable unit for low cost personalized cardio healthcare system. , 2017, , .		5
69	Low-cost smart electric wheelchair with destination mapping and intelligent control features. , 2017, , .		12
70	An automatic scheme for brain tumor region detection from 3D MRI data based on enhanced intensity variation. , 2017, , .		3
71	Enhancement of noisy speech based on decision-directed Wiener approach in perceptual wavelet packet domain. , 2017, , .		3
72	Higher order statistics of bispectrum and MRP of ECoG signals for motor imagery tasks classification. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
73	Brain-drive: A smart driver for controlling digital appliances using cognitive command. , 2017, , .		2
74	Seizure activity classification using parameters of Gaussian PDF in the gamma and theta band DWT coefficients of EEG signals. , 2017, , .		0
75	Cost efficient autonomous navigation system (e-cane) for visually impaired human beings. , 2017, , .		7
76	Mental Task Classification Scheme Utilizing Correlation Coefficient Extracted from Interchannel Intrinsic Mode Function. BioMed Research International, 2017, 2017, 1-11.	1.9	9
77	Auto-HRID: Automated Heart Rate Monitoring and Injecting Device with Precise Vein Detection. , 2017, , .		0
78	Audio Visual Emotion Recognition Using Cross Correlation and Wavelet Packet Domain Features. , 2017, , .		4
79	Bimodal Gaussian PDF of the Dominant IMFs of EEG Signals for Seizure Activity Classification. , 2017, , .		0
80	Voice Based Eye Vision Tester for Underprivileged Community. , 2017, , .		1
81	Real-time non-intrusive eye-gaze tracking based wheelchair control for the physically challenged. , 2016, , .		14
82	An efficient scheme for detecting region of interest encompassing the brain tumor from 3D MRI data based on voxel statistics. , 2016, , .		2
83	Automatic brain tumor detection and segmentation from multi-modal MRI images based on region growing and level set evolution. , 2015, , .		22
84	Design and implementation of an FPGA-based realtime face recognition system using spatial correlation function. , 2014, , .		0
85	Automated detection of optic disc and blood vessel in retinal image using morphological, edge detection and feature extraction technique. , 2014, , .		13
86	Automatic bleeding detection in wireless capsule endoscopy based on RGB pixel intensity ratio. , 2014, , .		19
87	Motor imagery EEG signal classification scheme based on autoregressive reflection coefficients. , 2014, , .		9
88	Palm-print recognition based on DCT domain statistical features extracted from enhanced image. , 2014, , .		2
89	Palm-print recognition based on spectral domain statistical features extracted from enhanced image. , 2014, , .		0
90	A Single-Channel Acoustic Echo Cancellation Scheme Using Gradient-Based Adaptive Filtering. Circuits, Systems, and Signal Processing, 2014, 33, 1541-1572.	2.0	9

#	ARTICLE	IF	CITATIONS
91	A statistical feature based novel method to detect bleeding in wireless capsule endoscopy images. , 2014, , .		27
92	DCT domain feature extraction scheme based on motor unit action potential of EMG signal for neuromuscular disease classification. Healthcare Technology Letters, 2014, 1, 26-31.	3.3	18
93	A DCT-Based Local Dominant Feature Extraction Algorithm for Palm-Print Recognition. Circuits, Systems, and Signal Processing, 2013, 32, 1179-1204.	2.0	3
94	A histogram-based dominant wavelet domain feature selection algorithm for palm-print recognition. Computers and Electrical Engineering, 2013, 39, 1114-1128.	4.8	12
95	A detection method of nasalised vowels based on an acoustic parameter derived from phase spectrum. , 2013, , .		1
96	Identification of motor neuron disease using wavelet domain features extracted from EMG signal. , 2013, , .		24
97	Gradient based adaptive filter algorithm for single channel acoustic echo cancellation in noise. , 2012, , .		3
98	An approach for formant based speech recognition in noise. , 2012, , .		1
99	Spatial domain entropy based local feature extraction scheme for face recognition. , 2012, , .		1
100	ECG signal based human identification method using features in temporal and wavelet domains. , 2012, , .		3
101	Human identification method using time and wavelet domain features based on modified dECG. , 2012, , .		1
102	Identifying the Motor Neuron Disease in EMG Signal Using Time and Frequency Domain Features with Comparison. Signal and Image Processing: an International Journal, 2012, 3, 99-114.	0.3	21
103	A Wavelet-Domain Local Dominant Feature Selection Scheme for Face Recognition. , 2012, 2012, 1-13.		1
104	A face recognition scheme based on spectral domain cross-correlation function. , 2011, , .		5
105	A wavelet-domain local feature selection scheme for face recognition. , 2011, , .		9
106	A Basic Digital Watermarking Algorithm in Discrete Cosine Transformation Domain. , 2011, , .		7
107	An approach for human identification based on time and frequency domain features extracted from ECG signals. , 2011, , .		10
108	A face recognition scheme using wavelet-based local features. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
109	An adaptive noise cancellation scheme using particle swarm optimization algorithm. , 2010, , .		13
110	A design for low cost electronic toll collection system with secured data communication. , 2010, , .		2
111	An efficient face recognition algorithm based on frequency domain cross-correlation function. , 2010, , .		0
112	A face recognition scheme based on spectral domain feature extraction. , 2010, , .		1
113	Manipulation and transparency control of ICT constituted e-administrative protocol via digital watermarking for LDC's. , 2010, , .		4
114	A spectral domain feature extraction scheme for palm-print recognition. , 2010, , .		2
115	A secured electronic transaction scheme for mobile banking in Bangladesh incorporating digital watermarking. , 2010, , .		10
116	A DCT-based feature extraction algorithm for palm-print recognition. , 2010, , .		8
117	Digital security algorithm for GSM incorporated virtual e-banking protocol using watermarking technique. , 2010, , .		1
118	EM shielding, dosimetry control and Xe(135)-Sm(149) Poisoning effect for nuclear waste treatment. , 2010, , .		2
119	A face recognition scheme based on spatial correlation function. , 2010, , .		4
120	Secured cellular banking protocols using virtual internet with digital watermarking. , 2010, , .		1
121	A time domain approach of acoustic echo cancellation based on particle swarm optimization. , 2010, , .		3
122	An acoustic echo cancellation scheme based on particle swarm optimization algorithm. , 2010, , .		3
123	Nuclear waste transmutation by decay energetics, compton imaging, Bremsstrahlung and nuclei dynamics. , 2010, , .		2
124	Security Enhancement Protocol in SMS-Banking using Digital Watermarking Technique. , 2010, , .		4
125	A spectral domain feature extraction algorithm for face recognition. , 2010, , .		2