

# Celia Shahnaz

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

842  
citations

1040056

9  
h-index

1199594

12  
g-index

90  
all docs

90  
docs citations

90  
times ranked

668  
citing authors

#	ARTICLE	IF	CITATIONS
1	ALSNet: A Dilated 1-D CNN for Identifying ALS from Raw EMG Signal. , 2022, , .		2
2	Exploiting Cascaded Ensemble of Features for the Detection of Tuberculosis Using Chest Radiographs. IEEE Access, 2021, 9, 112388-112399.	4.2	7
3	CapsCovNet: A Modified Capsule Network to Diagnose COVID-19 From Multimodal Medical Imaging. IEEE Transactions on Artificial Intelligence, 2021, 2, 608-617.	4.7	11
4	Arithmetic Mental Task of EEG Signal Classification Using Statistical Modeling of The DWT Coefficient. , 2021, , .		0
5	COVID-19 mRNA Vaccine Degradation Prediction using Regularized LSTM Model. , 2020, , .		2
6	Detection of Tuberculosis from Chest X-Ray Images Based on Modified Inception Deep Neural Network Model. , 2020, , .		3
7	Abnormality Detection in Musculoskeletal Radiographs Using Capsule Network. IEEE Access, 2019, 7, 81494-81503.	4.2	30
8	Application of Electrical Network Frequency of Digital Recordings for Location-Stamp Verification. Applied Sciences (Switzerland), 2019, 9, 3135.	2.5	5
9	Non-invasive Blood Glucose Estimation Using Multi-sensor Based Portable and Wearable System. , 2019, , .		8
10	Eye Blink Controlled Low Cost Smart Wheel Chair Aiding Disabled People. , 2019, , .		4
11	Non-Invasive Bilirubin Level Quantification and Jaundice Detection by Sclera Image Processing. , 2019, , .		8
12	Image-based Bengali Sign Language Alphabet Recognition for Deaf and Dumb Community. , 2019, , .		22
13	Complete Automation of an E-commerce System with Internet of Things. , 2019, , .		2
14	Effectiveness of Convolutional and Capsule network in Malaria Parasite Detection. , 2019, , .		4
15	Eye Gaze Controlled Immersive Video Navigation System for Disabled People. , 2019, , .		4
16	Convolutional Neural Network (CNN) Based Speech-Emotion Recognition. , 2019, , .		30
17	A Dual-Purpose Refreshable Braille Display Based on Real Time Object Detection and Optical Character Recognition. , 2019, , .		1
18	Source and Camera Independent Ophthalmic Disease Recognition from Fundus Image Using Neural Network. , 2019, , .		38

#	ARTICLE	IF	CITATIONS
19	ALS Detection Based on T-Location Scale Statistical Modeling of the DWT Coefficients of EMG Signals. , 2019, , .		0
20	Portable Real Time ECG Monitor and Disease Diagnostics. , 2019, , .		0
21	Seizure and Non-Seizure EEG Signals Detection Using 1-D Convolutional Neural Network Architecture of Deep Learning Algorithm. , 2019, , .		13
22	Autonomous Trash Collector Based on Object Detection Using Deep Neural Network. , 2019, , .		17
23	Design of Intent Recognition System in a Prosthetic Leg for Automatic Switching of Locomotion Modes. , 2019, , .		4
24	A low cost Human Computer Interface for Disabled People based on Eye Blink detection using Brain Signal. , 2019, , .		2
25	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
26	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
27	Sign Language Recognition for Speech and Hearing Impaired by Image Processing in MATLAB. , 2018, , .		6
28	Configurable Digital Hearing Aid System with Reduction of Noise for Speech Enhancement Using Spectral Subtraction Method and Frequency Dependent Amplification. , 2018, , .		1
29	Real-Time American Sign Language Recognition Using Skin Segmentation and Image Category Classification with Convolutional Neural Network and Deep Learning. , 2018, , .		28
30	A Low-cost Venturi Tube Spirometer for the Diagnosis of COPD. , 2018, , .		4
31	Deep Learning-Based Eye Gaze Controlled Robotic Car. , 2018, , .		4
32	Retinal Blood Vessel Segmentation Using Residual Block Incorporated U-Net Architecture and Fuzzy Inference System. , 2018, , .		11
33	Natural and Medical Image Encryption Using Self-Adaptive Permutation and DNA Encoding. , 2018, , .		8
34	Text to Braille Scanner with Ultra Low Cost Refreshable Braille Display. , 2018, , .		7
35	Statistical Modeling of Effluent Generated from the proposed Rampal power plant for the assessment of Environmental Impact. , 2018, , .		0
36	Detection and Classification of Nasalized Vowels in Noise Based on Cepstra Derived from Differential Product Spectrum. Circuits, Systems, and Signal Processing, 2017, 36, 181-201.	2.0	0

#	ARTICLE	IF	CITATIONS
37	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
38	Rayleigh modeling of teager energy operated perceptual wavelet packet coefficients for enhancing noisy speech. Speech Communication, 2017, 86, 64-74.	2.8	10
39	Classification of seizure and non-seizure activity in seizure patients using time-frequency domain processing of gamma band EEG signals. , 2017, , .		4
40	Android based heart rate monitoring and automatic notification system. , 2017, , .		5
41	Real time hand movement controlled robotic arm for risk prevention. , 2017, , .		6
42	Detection of anemia from image of the anterior conjunctiva of the eye by image processing and thresholding. , 2017, , .		30
43	Detection of inferior myocardial infarction using shallow convolutional neural networks. , 2017, , .		47
44	Design of a low cost anti-theft sensor for motorcycle security device. , 2017, , .		5
45	Efficient approaches for accuracy improvement of breast cancer classification using wisconsin database. , 2017, , .		15
46	A cost effective GPS guided autonomous object transporter robot for disaster management and industrial automation. , 2017, , .		5
47	Real time injecting device with automated robust vein detection using near infrared camera and live video. , 2017, , .		11
48	Wrist-card: PPG sensor based wrist wearable unit for low cost personalized cardio healthcare system. , 2017, , .		5
49	Low-cost smart electric wheelchair with destination mapping and intelligent control features. , 2017, , .		12
50	Teager energy operated perceptual wavelet packet transform coefficients for arithmetic task classification from EEG signals. , 2017, , .		2
51	An automatic scheme for brain tumor region detection from 3D MRI data based on enhanced intensity variation. , 2017, , .		3
52	Enhancement of noisy speech based on decision-directed Wiener approach in perceptual wavelet packet domain. , 2017, , .		3
53	Higher order statistics of bispectrum and MRP of ECoG signals for motor imagery tasks classification. , 2017, , .		3
54	Brain-drive: A smart driver for controlling digital appliances using cognitive command. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
55	Seizure activity classification using parameters of Gaussian PDF in the gamma and theta band DWT coefficients of EEG signals. , 2017, , .		0
56	Cost efficient autonomous navigation system (e-cane) for visually impaired human beings. , 2017, , .		7
57	Auto-HRID: Automated Heart Rate Monitoring and Injecting Device with Precise Vein Detection. , 2017, , .		0
58	Audio Visual Emotion Recognition Using Cross Correlation and Wavelet Packet Domain Features. , 2017, , .		4
59	Bimodal Gaussian PDF of the Dominant IMFs of EEG Signals for Seizure Activity Classification. , 2017, , .		0
60	Voice Based Eye Vision Tester for Underprivileged Community. , 2017, , .		1
61	Bangla voice controlled robot for rescue operation in noisy environment. , 2016, , .		14
62	Emotion recognition based on wavelet analysis of Empirical Mode Decomposed EEG signals responsive to music videos. , 2016, , .		25
63	Sub-frame based apnea detection exploiting delta band power ratio extracted from EEG signals. , 2016, , .		17
64	Sleep Apnea frame detection based on Empirical Mode Decomposition of delta wave extracted from wavelet of EEG signals. , 2016, , .		1
65	Automatic brain tumor detection and segmentation from multi-modal MRI images based on region growing and level set evolution. , 2015, , .		22
66	A detection and classification method for nasalized vowels in noise using product spectrum based cepstra. International Journal of Speech Technology, 2015, 18, 97-111.	2.2	2
67	Speech Enhancement Based on Student $t$ -Distribution and Teager Energy Operated Perceptual Wavelet Packet Coefficients and a Custom Thresholding Function. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 1800-1811.	5.8	19
68	Noisy speech enhancement based on an adaptive threshold and a modified hard thresholding function in wavelet packet domain. , 2013, 23, 941-951.		39
69	A detection method of nasalised vowels based on an acoustic parameter derived from phase spectrum. , 2013, , .		1
70	Identification of motor neuron disease using wavelet domain features extracted from EMG signal. , 2013, , .		24
71	Multiclass epileptic seizure classification using time-frequency analysis of EEG signals. , 2012, , .		13
72	A combination of semisoft and $\mu$ -law thresholding functions for enhancing noisy speech in wavelet packet domain. , 2012, , .		4

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73	Enhancement of noisy speech based on a custom thresholding function with a statistically determined threshold. International Journal of Speech Technology, 2012, 15, 463-475.	2.2	12
74	An approach for formant based speech recognition in noise. , 2012, , .		1
75	An approach for classification of power quality disturbances based on Hilbert Huang Transform and Relevance Vector Machine. , 2012, , .		9
76	ECG signal based human identification method using features in temporal and wavelet domains. , 2012, , .		3
77	Human identification method using time and wavelet domain features based on modified dECG. , 2012, , .		1
78	Pitch Estimation Based on a Harmonic Sinusoidal Autocorrelation Model and a Time-Domain Matching Scheme. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 322-335.	3.2	25
79	A Basic Digital Watermarking Algorithm in Discrete Cosine Transformation Domain. , 2011, , .		7
80	An ECG signal denoising method based on enhancement algorithms in EMD and Wavelet domains. , 2011, , .		9
81	An approach for human identification based on time and frequency domain features extracted from ECG signals. , 2011, , .		10
82	An approach for noisy speech enhancement by employing the teager energy operation on wavelet packet. , 2011, , .		1
83	An adaptive noise cancellation scheme using particle swarm optimization algorithm. , 2010, , .		13
84	Manipulation and transparency control of ICT constituted e-administrative protocol via digital watermarking for LDC's. , 2010, , .		4
85	A secured electronic transaction scheme for mobile banking in Bangladesh incorporating digital watermarking. , 2010, , .		10
86	Digital security algorithm for GSM incorporated virtual e-banking protocol using watermarking technique. , 2010, , .		1
87	EM shielding, dosimetry control and Xe(135)-Sm(149) Poisoning effect for nuclear waste treatment. , 2010, , .		2
88	Secured cellular banking protocols using virtual internet with digital watermarking. , 2010, , .		1
89	Nuclear waste transmutation by decay energetics, compton imaging, Bremsstrahlung and nuclei dynamics. , 2010, , .		2
90	Security Enhancement Protocol in SMS-Banking using Digital Watermarking Technique. , 2010, , .		4