U Rajendra Acharya

List of Publications by Year in Descending Order

653 papers	33,186 citations	92 h-index	155 g-index
688 ext. papers	43,387 ext. citations	4.6 avg, IF	8.2 L-index

#	Paper	IF	Citations
653	Aleatory-aware deep uncertainty quantification for transfer learning.. *Computers in Biology and Medicine*, **2022**, 143, 105246	7	1
652	Development of accurate automated language identification model using polymer pattern and tent maximum absolute pooling techniques. *Neural Computing and Applications*, **2022**, 34, 4875	4.8	1
651	Artificial Intelligence Enabled Personalised Assistive Tools to Enhance Education of Children with Neurodevelopmental Disorders-A Review.. *International Journal of Environmental Research and Public Health*, **2022**, 19,	4.6	2
650	Development of a Computational Tool for the Estimation of Alveolar Bone Loss in Oral Radiographic Images. *Computation*, **2022**, 10, 8	2.2	1
649	Application of photoplethysmography signals for healthcare systems: An in-depth review.. *Computer Methods and Programs in Biomedicine*, **2022**, 216, 106677	6.9	8
648	Automated emotion recognition: Current trends and future perspectives.. *Computer Methods and Programs in Biomedicine*, **2022**, 215, 106646	6.9	5
647	Automated identification of sleep disorders using wavelet-based features extracted from electrooculogram and electromyogram signals.. *Computers in Biology and Medicine*, **2022**, 143, 105224	7	5
646	A novel genetic algorithm based system for the scheduling of medical treatments. *Expert Systems With Applications*, **2022**, 195, 116464	7.8	8
645	Accurate detection of autism using Douglas-Peucker algorithm, sparse coding based feature mapping and convolutional neural network techniques with EEG signals.. *Computers in Biology and Medicine*, **2022**, 143, 105311	7	1
644	Tetromino pattern based accurate EEG emotion classification model.. *Artificial Intelligence in Medicine*, **2022**, 123, 102210	7.4	6
643	Application of artificial intelligence in wearable devices: Opportunities and challenges. *Computer Methods and Programs in Biomedicine*, **2022**, 213, 106541	6.9	13
642	Automated Intracranial Hematoma Classification in Traumatic Brain Injury (TBI) Patients Using Meta-Heuristic Optimization Techniques. *Informatics*, **2022**, 9, 4	2.2	
641	Transfer learning techniques for medical image analysis: A review. *Biocybernetics and Biomedical Engineering*, **2022**, 42, 79-107	5.7	6
640	Detection of epileptic seizures on EEG signals using ANFIS classifier, autoencoders and fuzzy entropies. *Biomedical Signal Processing and Control*, **2022**, 73, 103417	4.9	12
639	DesPatNet25: Data encryption standard cipher model for accurate automated construction site monitoring with sound signals. *Expert Systems With Applications*, **2022**, 193, 116447	7.8	0
638	A Hand-Modeled Feature Extraction-Based Learning Network to Detect Grasps Using sEMG Signal.. *Sensors*, **2022**, 22,	3.8	1
637	Novel Hypertrophic Cardiomyopathy Diagnosis Index Using Deep Features and Local Directional Pattern Techniques.. *Journal of Imaging*, **2022**, 8,	3.1	1

636	Attention-based 3D CNN with residual connections for efficient ECG-based COVID-19 detection.. *Computers in Biology and Medicine*, **2022**, 143, 105335	7	5
635	Automated detection of obstructive sleep apnea in more than 8000 subjects using frequency optimized orthogonal wavelet filter bank with respiratory and oximetry signals.. *Computers in Biology and Medicine*, **2022**, 144, 105364	7	0
634	Exemplar Darknet19 feature generation technique for automated kidney stone detection with coronal CT images.. *Artificial Intelligence in Medicine*, **2022**, 127, 102274	7.4	1
633	Heart rate variability for medical decision support systems: A review.. *Computers in Biology and Medicine*, **2022**, 145, 105407	7	1
632	Deep Transfer Learning for Automatic Prediction of Hemorrhagic Stroke on CT Images.. *Computational and Mathematical Methods in Medicine*, **2022**, 2022, 3560507	2.8	
631	Role of Four-Chamber Heart Ultrasound Images in Automatic Assessment of Fetal Heart: A Systematic Understanding. *Informatics*, **2022**, 9, 34	2.2	0
630	Automated detection of ADHD: Current trends and future perspective.. *Computers in Biology and Medicine*, **2022**, 146, 105525	7	1
629	Automated diagnosis of coronary artery disease using scalogram-based tensor decomposition with heart rate signals.. *Medical Engineering and Physics*, **2022**, 103811	2.4	0
628	RESCOVIDTCNnet: A residual neural network-based framework for COVID-19 detection using TCN and EWT with chest X-ray images.. *Expert Systems With Applications*, **2022**, 117410	7.8	2
627	An empirical study of preprocessing techniques with convolutional neural networks for accurate detection of chronic ocular diseases using fundus images.. *Applied Intelligence*, **2022**, 1-19	4.9	0
626	An accurate valvular heart disorders detection model based on a new dual symmetric tree pattern using stethoscope sounds. *Computers in Biology and Medicine*, **2022**, 105599	7	0
625	Automated classification of cyclic alternating pattern sleep phases in healthy and sleep-disordered subjects using convolutional neural network. *Computers in Biology and Medicine*, **2022**, 105594	7	1
624	An Accurate Multiple Sclerosis Detection Model Based on Exemplar Multiple Parameters Local Phase Quantization: ExMPLPQ. *Applied Sciences (Switzerland)*, **2022**, 12, 4920	2.6	8
623	Explainable detection of myocardial infarction using deep learning models with Grad-CAM technique on ECG signals.. *Computers in Biology and Medicine*, **2022**, 146, 105550	7	6
622	An overview of artificial intelligence techniques for diagnosis of Schizophrenia based on magnetic resonance imaging modalities: Methods, challenges, and future works.. *Computers in Biology and Medicine*, **2022**, 146, 105554	7	9
621	PFP-LHCINCA: Pyramidal Fixed-Size Patch-Based Feature Extraction and Chi-Square Iterative Neighborhood Component Analysis for Automated Fetal Sex Classification on Ultrasound Images. *Contrast Media and Molecular Imaging*, **2022**, 2022, 1-10	3.2	0
620	Uncertainty-Aware Semi-Supervised Method Using Large Unlabeled and Limited Labeled COVID-19 Data. *ACM Transactions on Multimedia Computing, Communications and Applications*, **2021**, 17, 1-24	3.4	6
619	Automated classification of attention deficit hyperactivity disorder and conduct disorder using entropy features with ECG signals.. *Computers in Biology and Medicine*, **2021**, 140, 105120	7	3

618	Application of CycleGAN and transfer learning techniques for automated detection of COVID-19 using X-ray images. *Pattern Recognition Letters*, **2021**, 153, 67-67	4.7	3
617	Role of Artificial Intelligence in COVID-19 Detection. *Sensors*, **2021**, 21,	3.8	7
616	Interpretation of radiomics features-A pictorial review.. *Computer Methods and Programs in Biomedicine*, **2021**, 215, 106609	6.9	2
615	Application of Deep Learning Models for Automated Identification of Parkinson's Disease: A Review (2011-2021). *Sensors*, **2021**, 21,	3.8	8
614	Automated COVID-19 and Heart Failure Detection Using DNA Pattern Technique with Cough Sounds. *Diagnostics*, **2021**, 11,	3.8	4
613	Multi-Scale Convolutional Neural Network for Accurate Corneal Segmentation in Early Detection of Fungal Keratitis. *Journal of Fungi (Basel, Switzerland)*, **2021**, 7,	5.6	2
612	Review of Deep Learning-Based Atrial Fibrillation Detection Studies. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	9
611	Deep learning for neuroimaging-based diagnosis and rehabilitation of Autism Spectrum Disorder: A review. *Computers in Biology and Medicine*, **2021**, 139, 104949	7	33
610	Automated detection of conduct disorder and attention deficit hyperactivity disorder using decomposition and nonlinear techniques with EEG signals. *Computer Methods and Programs in Biomedicine*, **2021**, 200, 105941	6.9	22
609	Handling of uncertainty in medical data using machine learning and probability theory techniques: a review of 30 years (1991-2020). *Annals of Operations Research*, **2021**, 1-42	3.2	22
608	Automated major depressive disorder detection using melamine pattern with EEG signals. *Applied Intelligence*, **2021**, 51, 6449-6466	4.9	1
607	Detection of Parkinson disease using automated tunable Q wavelet transform technique with EEG signals. *Biocybernetics and Biomedical Engineering*, **2021**, 41, 679-689	5.7	11
606	Automatic identification of insomnia using optimal antisymmetric biorthogonal wavelet filter bank with ECG signals. *Computers in Biology and Medicine*, **2021**, 131, 104246	7	16
605	ECG Language processing (ELP): A new technique to analyze ECG signals. *Computer Methods and Programs in Biomedicine*, **2021**, 202, 105959	6.9	7
604	Application of Artificial Intelligence techniques for the detection of Alzheimer disease using structural MRI images. *Biocybernetics and Biomedical Engineering*, **2021**, 41, 456-473	5.7	9
603	Epileptic Seizures Detection Using Deep Learning Techniques: A Review. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	59
602	ECNet: An evolutionary convolutional network for automated glaucoma detection using fundus images. *Biomedical Signal Processing and Control*, **2021**, 67, 102559	4.9	11
601	A hybrid deep learning approach for gland segmentation in prostate histopathological images. *Artificial Intelligence in Medicine*, **2021**, 115, 102076	7.4	9

600	Automated Detection of Hypertension Using Physiological Signals: A Review. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	4
599	Automated Classification of Mental Arithmetic Tasks Using Recurrent Neural Network and Entropy Features Obtained from Multi-Channel EEG Signals. *Electronics (Switzerland)*, **2021**, 10, 1079	2.6	10
598	Automated interpretation of biopsy images for the detection of celiac disease using a machine learning approach. *Computer Methods and Programs in Biomedicine*, **2021**, 203, 106010	6.9	7
597	Automated Detection and Screening of Traumatic Brain Injury (TBI) Using Computed Tomography Images: A Comprehensive Review and Future Perspectives. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	6
596	Schizophrenia: A Survey of Artificial Intelligence Techniques Applied to Detection and Classification. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	3
595	Automated Identification of Sleep Disorder Types Using Triplet Half-Band Filter and Ensemble Machine Learning Techniques with EEG Signals. *Electronics (Switzerland)*, **2021**, 10, 1531	2.6	4
594	A novel automated autism spectrum disorder detection system. *Complex & Intelligent Systems*, **2021**, 7, 2399	7.1	7
593	Application of substitution box of present cipher for automated detection of snoring sounds. *Artificial Intelligence in Medicine*, **2021**, 117, 102085	7.4	3
592	GaborPDNet: Gabor Transformation and Deep Neural Network for Parkinson Disease Detection Using EEG Signals. *Electronics (Switzerland)*, **2021**, 10, 1740	2.6	10
591	Application of Petersen graph pattern technique for automated detection of heart valve diseases with PCG signals. *Information Sciences*, **2021**, 565, 91-104	7.7	11
590	Automated detection of coronary artery disease, myocardial infarction and congestive heart failure using GaborCNN model with ECG signals. *Computers in Biology and Medicine*, **2021**, 134, 104457	7	12
589	Automated Characterization of Cyclic Alternating Pattern Using Wavelet-Based Features and Ensemble Learning Techniques with EEG Signals. *Diagnostics*, **2021**, 11,	3.8	7
588	COVIDiag: a clinical CAD system to diagnose COVID-19 pneumonia based on CT findings. *European Radiology*, **2021**, 31, 121-130	8	31
587	Development of breast papillary index for differentiation of benign and malignant lesions using ultrasound images. *Journal of Ambient Intelligence and Humanized Computing*, **2021**, 12, 2121-2129	3.7	7
586	ABCDM: An Attention-based Bidirectional CNN-RNN Deep Model for sentiment analysis. *Future Generation Computer Systems*, **2021**, 115, 279-294	7.5	189
585	Accurate detection of sleep apnea with long short-term memory network based on RR interval signals. *Knowledge-Based Systems*, **2021**, 212, 106591	7.3	12
584	The impact of pre- and post-image processing techniques on deep learning frameworks: A comprehensive review for digital pathology image analysis. *Computers in Biology and Medicine*, **2021**, 128, 104129	7	37
583	Risk factors prediction, clinical outcomes, and mortality in COVID-19 patients. *Journal of Medical Virology*, **2021**, 93, 2307-2320	19.7	40

582	Accurate detection of myocardial infarction using non linear features with ECG signals. *Journal of Ambient Intelligence and Humanized Computing*, **2021**, 12, 3227-3244	3.7	18
581	Coronary artery disease detection using artificial intelligence techniques: A survey of trends, geographical differences and diagnostic features 1991-2020. *Computers in Biology and Medicine*, **2021**, 128, 104095	7	17
580	Automated accurate speech emotion recognition system using twine shuffle pattern and iterative neighborhood component analysis techniques. *Knowledge-Based Systems*, **2021**, 211, 106547	7.3	20
579	Artificial Intelligence and Machine Learning in Emergency Medicine. *Biocybernetics and Biomedical Engineering*, **2021**, 41, 156-172	5.7	10
578	Design of Adaptive-Robust Controller for Multi-State Synchronization of Chaotic Systems with Unknown and Time-Varying Delays and Its Application in Secure Communication. *Sensors*, **2021**, 21,	3.8	7
577	Automated detection of hypertension using wavelet transform and nonlinear techniques with ballistocardiogram signals. *Informatics in Medicine Unlocked*, **2021**, 26, 100736	5.3	1
576	SPWVD-CNN for Automated Detection of Schizophrenia Patients Using EEG Signals. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-9	5.2	32
575	Automated detection of abnormal heart sound signals using Fano-factor constrained tunable quality wavelet transform. *Biocybernetics and Biomedical Engineering*, **2021**, 41, 111-126	5.7	5
574	Accurate automated diagnosis of carpal tunnel syndrome using radiomics features with ultrasound images: A comparison with radiologists' assessment. *European Journal of Radiology*, **2021**, 136, 109518	4.7	3
573	Automatic Sleep-Stage Scoring in Healthy and Sleep Disorder Patients Using Optimal Wavelet Filter Bank Technique with EEG Signals. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	20
572	Development of accurate classification of heavenly bodies using novel machine learning techniques. *Soft Computing*, **2021**, 25, 7213-7228	3.5	1
571	Automatic COVID-19 Detection Using Exemplar Hybrid Deep Features with X-ray Images. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	8
570	An automated skin melanoma detection system with melanoma-index based on entropy features. *Biocybernetics and Biomedical Engineering*, **2021**, 41, 997-1012	5.7	9
569	Fusion of convolution neural network, support vector machine and Sobel filter for accurate detection of COVID-19 patients using X-ray images. *Biomedical Signal Processing and Control*, **2021**, 68, 102622	4.9	40
568	Automated ASD detection using hybrid deep lightweight features extracted from EEG signals. *Computers in Biology and Medicine*, **2021**, 134, 104548	7	18
567	Automated identification of insomnia using optimal bi-orthogonal wavelet transform technique with single-channel EEG signals. *Knowledge-Based Systems*, **2021**, 224, 107078	7.3	15
566	Automated detection of chronic kidney disease using image fusion and graph embedding techniques with ultrasound images. *Biomedical Signal Processing and Control*, **2021**, 68, 102733	4.9	2
565	Automated accurate emotion recognition system using rhythm-specific deep convolutional neural network technique with multi-channel EEG signals. *Computers in Biology and Medicine*, **2021**, 134, 104428	7	23

564	Automated detection of glaucoma using elongated quinary patterns technique with optical coherence tomography angiogram images. *Biomedical Signal Processing and Control*, **2021**, 69, 102895	4.9	1
563	Deep learning model for automated kidney stone detection using coronal CT images. *Computers in Biology and Medicine*, **2021**, 135, 104569	7	7
562	Automated Arrhythmia Detection Based on RR Intervals. *Diagnostics*, **2021**, 11,	3.8	10
561	PDCNNet: An Automatic Framework for the Detection of Parkinson Disease Using EEG Signals. *IEEE Sensors Journal*, **2021**, 21, 17017-17024	4	16
560	Uncertainty quantification in skin cancer classification using three-way decision-based Bayesian deep learning. *Computers in Biology and Medicine*, **2021**, 135, 104418	7	29
559	Multichannel Multiscale Two-Stage Convolutional Neural Network for the Detection and Localization of Myocardial Infarction Using Vectorcardiogram Signal. *Applied Sciences (Switzerland)*, **2021**, 11, 7920	2.6	2
558	A review of patient-led data acquisition for atrial fibrillation detection to prevent stroke. *Biomedical Signal Processing and Control*, **2021**, 69, 102818	4.9	4
557	Automated detection of shockable ECG signals: A review. *Information Sciences*, **2021**, 571, 580-604	7.7	7
556	Applications of deep learning techniques for automated multiple sclerosis detection using magnetic resonance imaging: A review. *Computers in Biology and Medicine*, **2021**, 136, 104697	7	38
555	A novel fusion-based deep learning model for sentiment analysis of COVID-19 tweets. *Knowledge-Based Systems*, **2021**, 228, 107242	7.3	23
554	Recent Trends in Artificial Intelligence-Assisted Coronary Atherosclerotic Plaque Characterization. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	1
553	Automated accurate schizophrenia detection system using Collatz pattern technique with EEG signals. *Biomedical Signal Processing and Control*, **2021**, 70, 102936	4.9	7
552	Automated arrhythmia detection with homeomorphically irreducible tree technique using more than 10,000 individual subject ECG records. *Information Sciences*, **2021**, 575, 323-337	7.7	11
551	Novel ensemble of optimized CNN and dynamic selection techniques for accurate Covid-19 screening using chest CT images. *Computers in Biology and Medicine*, **2021**, 137, 104835	7	7
550	Novel automated PD detection system using aspirin pattern with EEG signals. *Computers in Biology and Medicine*, **2021**, 137, 104841	7	1
549	BARF: A new direct and cross-based binary residual feature fusion with uncertainty-aware module for medical image classification. *Information Sciences*, **2021**, 577, 353-378	7.7	16
548	AFCNNet: Automated detection of AF using chirplet transform and deep convolutional bidirectional long short term memory network with ECG signals. *Computers in Biology and Medicine*, **2021**, 137, 104783	7	8
547	A novel approach based on genetic algorithm to speed up the discovery of classification rules on GPUs. *Knowledge-Based Systems*, **2021**, 231, 107419	7.3	0

546	Exploring deep features and ECG attributes to detect cardiac rhythm classes. *Knowledge-Based Systems*, **2021**, 232, 107473	7.3	6
545	PrimePatNet87: Prime pattern and tunable q-factor wavelet transform techniques for automated accurate EEG emotion recognition. *Computers in Biology and Medicine*, **2021**, 138, 104867	7	6
544	Automated classification of five arrhythmias and normal sinus rhythm based on RR interval signals. *Expert Systems With Applications*, **2021**, 181, 115031	7.8	10
543	Automated EEG signal classification using chaotic local binary pattern. *Expert Systems With Applications*, **2021**, 182, 115175	7.8	1
542	A practical artificial intelligence system to diagnose COVID-19 using computed tomography: A multinational external validation study. *Pattern Recognition Letters*, **2021**, 152, 42-49	4.7	4
541	A review of uncertainty quantification in deep learning: Techniques, applications and challenges. *Information Fusion*, **2021**, 76, 243-297	16.7	174
540	Automated classification of remote sensing images using multileveled MobileNetV2 and DWT techniques. *Expert Systems With Applications*, **2021**, 185, 115659	7.8	7
539	Novel and accurate non-linear index for the automated detection of haemorrhagic brain stroke using CT images. *Complex & Intelligent Systems*, **2021**, 7, 929-940	7.1	9
538	MCUa: Multi-level Context and Uncertainty aware Dynamic Deep Ensemble for Breast Cancer Histology Image Classification. *IEEE Transactions on Biomedical Engineering*, **2021**, PP,	5	5
537	Hybrid Decision Support to Monitor Atrial Fibrillation for Stroke Prevention. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	3
536	A novel machine learning framework for automated detection of arrhythmias in ECG segments. *Journal of Ambient Intelligence and Humanized Computing*, **2021**, 12, 10145-10162	3.7	7
535	Automated detection of schizophrenia using optimal wavelet-based norm features extracted from single-channel EEG. *Cognitive Neurodynamics*, **2021**, 15, 661-674	4.2	10
534	A Review on Computer Aided Diagnosis of Acute Brain Stroke.. *Sensors*, **2021**, 21,	3.8	3
533	Multilevel Deep Feature Generation Framework for Automated Detection of Retinal Abnormalities Using OCT Images.. *Entropy*, **2021**, 23,	2.8	1
532	Development of Automated Sleep Stage Classification System Using Multivariate Projection-Based Fixed Boundary Empirical Wavelet Transform and Entropy Features Extracted from Multichannel EEG Signals. *Entropy*, **2020**, 22,	2.8	12
531	A Review of Atrial Fibrillation Detection Methods as a Service. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	11
530	Automated Detection of Presymptomatic Conditions in Spinocerebellar Ataxia Type 2 Using Monte Carlo Dropout and Deep Neural Network Techniques with Electrooculogram Signals. *Sensors*, **2020**, 20,	3.8	10
529	Hybrid genetic-discretized algorithm to handle data uncertainty in diagnosing stenosis of coronary arteries. *Expert Systems*, **2020**,	2.1	11

528	Classification of heart sound signals using a novel deep WaveNet model. *Computer Methods and Programs in Biomedicine*, **2020**, 196, 105604	6.9	37
527	ResNet-Attention model for human authentication using ECG signals. *Expert Systems*, **2020**, 38, e12547	2.1	39
526	Automated detection of abnormal EEG signals using localized wavelet filter banks. *Pattern Recognition Letters*, **2020**, 133, 188-194	4.7	40
525	Automated invasive ductal carcinoma detection based using deep transfer learning with whole-slide images. *Pattern Recognition Letters*, **2020**, 133, 232-239	4.7	88
524	An adaptive feature extraction model for classification of thyroid lesions in ultrasound images. *Pattern Recognition Letters*, **2020**, 131, 463-473	4.7	2
523	Autism Spectrum Disorder Diagnostic System Using HOS Bispectrum with EEG Signals. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	29
522	Diagnosis of carpal tunnel syndrome: A comparative study of shear wave elastography, morphometry and artificial intelligence techniques. *Pattern Recognition Letters*, **2020**, 133, 77-85	4.7	9
521	Automated phase classification in cyclic alternating patterns in sleep stages using Wigner-Ville Distribution based features. *Computers in Biology and Medicine*, **2020**, 119, 103691	7	21
520	Association between work-related features and coronary artery disease: A heterogeneous hybrid feature selection integrated with balancing approach. *Pattern Recognition Letters*, **2020**, 133, 33-40	4.7	39
519	Comprehensive electrocardiographic diagnosis based on deep learning. *Artificial Intelligence in Medicine*, **2020**, 103, 101789	7.4	55
518	1D-CADCapsNet: One dimensional deep capsule networks for coronary artery disease detection using ECG signals. *Physica Medica*, **2020**, 70, 39-48	2.7	22
517	Automated detection of heart valve diseases using chirplet transform and multiclass composite classifier with PCG signals. *Computers in Biology and Medicine*, **2020**, 118, 103632	7	33
516	Validating the robustness of an internet of things based atrial fibrillation detection system. *Pattern Recognition Letters*, **2020**, 133, 55-61	4.7	10
515	Automated detection of COVID-19 cases using deep neural networks with X-ray images. *Computers in Biology and Medicine*, **2020**, 121, 103792	7	991
514	Application of deep learning technique to manage COVID-19 in routine clinical practice using CT images: Results of 10 convolutional neural networks. *Computers in Biology and Medicine*, **2020**, 121, 103795	7	333
513	Development of an automated system for the detection of genotype in polypoidal choroidal vasculopathy using retinal image phenotype. *Computer Methods and Programs in Biomedicine*, **2020**, 192, 105460	6.9	0
512	A novel hybrid approach for automated detection of retinal detachment using ultrasound images. *Computers in Biology and Medicine*, **2020**, 120, 103704	7	3
511	Application of deep learning techniques for heartbeats detection using ECG signals-analysis and review. *Computers in Biology and Medicine*, **2020**, 120, 103726	7	67

510	Automated pre-screening of arrhythmia using hybrid combination of Fourier-Bessel expansion and LSTM. *Computers in Biology and Medicine*, **2020**, 120, 103753	7	14
509	Thoughts concerning the application of thermogram images for automated diagnosis of dry eye □A review. *Infrared Physics and Technology*, **2020**, 106, 103271	2.7	1
508	Automated detection of Alzheimer's disease using bi-directional empirical model decomposition. *Pattern Recognition Letters*, **2020**, 135, 106-113	4.7	10
507	A novel method for sentiment classification of drug reviews using fusion of deep and machine learning techniques. *Knowledge-Based Systems*, **2020**, 198, 105949	7.3	34
506	Simulating forest fire spread and fire-fighting using cellular automata. *Chinese Journal of Physics*, **2020**, 65, 642-650	3.5	8
505	Deep Layer Kernel Sparse Representation Network for the Detection of Heart Valve Ailments from the Time-Frequency Representation of PCG Recordings. *BioMed Research International*, **2020**, 2020, 8843963	3	6
504	A computational intelligence tool for the detection of hypertension using empirical mode decomposition. *Computers in Biology and Medicine*, **2020**, 118, 103630	7	16
503	Automated Detection of Sleep Stages Using Energy-Localized Orthogonal Wavelet Filter Banks. *Arabian Journal for Science and Engineering*, **2020**, 45, 2531-2544	2.5	16
502	Automated detection of calcified plaque using higher-order spectra cumulant technique in computer tomography angiography images. *International Journal of Imaging Systems and Technology*, **2020**, 30, 285-297	2.5	3
501	DGHNL: A new deep genetic hierarchical network of learners for prediction of credit scoring. *Information Sciences*, **2020**, 516, 401-418	7.7	62
500	Model uncertainty quantification for diagnosis of each main coronary artery stenosis. *Soft Computing*, **2020**, 24, 10149-10160	3.5	10
499	Brain pathology identification using computer aided diagnostic tool: A systematic review. *Computer Methods and Programs in Biomedicine*, **2020**, 187, 105205	6.9	11
498	Profiling of pornography addiction among children using EEG signals: A systematic literature review. *Computers in Biology and Medicine*, **2020**, 125, 103970	7	2
497	Automated prediction of sepsis using temporal convolutional network. *Computers in Biology and Medicine*, **2020**, 127, 103957	7	16
496	Automated diagnostic tool for hypertension using convolutional neural network. *Computers in Biology and Medicine*, **2020**, 126, 103999	7	12
495	An introduction to the Cyrcadia Breast Monitor: A wearable breast health monitoring device. *Computer Methods and Programs in Biomedicine*, **2020**, 197, 105758	6.9	3
494	Development of novel ensemble model using stacking learning and evolutionary computation techniques for automated hepatocellular carcinoma detection. *Biocybernetics and Biomedical Engineering*, **2020**, 40, 1512-1524	5.7	14
493	Accurate deep neural network model to detect cardiac arrhythmia on more than 10,000 individual subject ECG records. *Computer Methods and Programs in Biomedicine*, **2020**, 197, 105740	6.9	30

492	Automated detection of severity of hypertension ECG signals using an optimal bi-orthogonal wavelet filter bank. *Computers in Biology and Medicine*, **2020**, 123, 103924	7	16
491	A two-stage deep CNN architecture for the classification of low-risk and high-risk hypertension classes using multi-lead ECG signals. *Informatics in Medicine Unlocked*, **2020**, 21, 100479	5.3	9
490	Detection of shockable ventricular cardiac arrhythmias from ECG signals using FFREWT filter-bank and deep convolutional neural network. *Computers in Biology and Medicine*, **2020**, 124, 103939	7	26
489	HAN-ECG: An interpretable atrial fibrillation detection model using hierarchical attention networks. *Computers in Biology and Medicine*, **2020**, 127, 104057	7	22
488	A Smart Service Platform for Cost Efficient Cardiac Health Monitoring. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	13
487	Local Preserving Class Separation Framework to Identify Gestational Diabetes Mellitus Mother Using Ultrasound Fetal Cardiac Image. *IEEE Access*, **2020**, 8, 229043-229051	3.5	3
486	Automated Detection of Sleep Stages Using Deep Learning Techniques: A Systematic Review of the Last Decade (2010–2020). *Applied Sciences (Switzerland)*, **2020**, 10, 8963	2.6	15
485	A deep convolutional neural network model for automated identification of abnormal EEG signals. *Neural Computing and Applications*, **2020**, 32, 15857-15868	4.8	54
484	A deep learning approach for Parkinson's disease diagnosis from EEG signals. *Neural Computing and Applications*, **2020**, 32, 10927-10933	4.8	156
483	Automated detection of chronic kidney disease using higher-order features and elongated quinary patterns from B-mode ultrasound images. *Neural Computing and Applications*, **2020**, 32, 11163-11172	4.8	5
482	Detection of shockable ventricular arrhythmia using optimal orthogonal wavelet filters. *Neural Computing and Applications*, **2020**, 32, 15869-15884	4.8	21
481	Automated detection of Parkinson's disease using minimum average maximum tree and singular value decomposition method with vowels. *Biocybernetics and Biomedical Engineering*, **2020**, 40, 211-220	5.7	32
480	Novel deep genetic ensemble of classifiers for arrhythmia detection using ECG signals. *Neural Computing and Applications*, **2020**, 32, 11137-11161	4.8	84
479	A simulation-aided approach in improving thermal-visual comfort and power efficiency in buildings. *Journal of Building Engineering*, **2020**, 27, 100936	5.2	16
478	Automated sleep apnea detection from cardio-pulmonary signal using bivariate fast and adaptive EMD coupled with cross time-frequency analysis. *Computers in Biology and Medicine*, **2020**, 120, 103769	7	15
477	Automated heartbeat classification and detection of arrhythmia using optimal orthogonal wavelet filters. *Informatics in Medicine Unlocked*, **2019**, 16, 100221	5.3	40
476	Automated detection of diabetic subject using pre-trained 2D-CNN models with frequency spectrum images extracted from heart rate signals. *Computers in Biology and Medicine*, **2019**, 113, 103387	7	56
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