Deep learning for healthcare applications based on physical

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Citation Report

#	Article	IF	Citations
1	ECG derived feature combination versus single feature in predicting defibrillation success in out-of-hospital cardiac arrested patients. Biomedical Physics and Engineering Express, 2018, 5, 015012.	0.6	7
2	Phylogeny-Aware Deep 1-Dimensional Convolutional Neural Network for the Classification of Metagenomes. , 2018, , .		4
3	A deep Learning Scheme for Automatic Seizure Detection from Long-Term Scalp EEG. , 2018, , .		21
4	Deep Learning and Medical Diagnosis: A Review of Literature. Multimodal Technologies and Interaction, 2018, 2, 47.	1.7	278
5	Arousal and Valence Classification Model Based on Long Short-Term Memory and DEAP Data for Mental Healthcare Management. Healthcare Informatics Research, 2018, 24, 309.	1.0	32
6	AD or Non-AD: A Deep Learning Approach to Detect Advertisements from Magazines. Entropy, 2018, 20, 982.	1.1	5
7	Parkinson's disease: Cause factors, measurable indicators, and early diagnosis. Computers in Biology and Medicine, 2018, 102, 234-241.	3.9	124
8	EEG-Based Emotion Recognition Using Quadratic Time-Frequency Distribution. Sensors, 2018, 18, 2739.	2.1	88
9	Analysis of knee-joint vibroarthographic signals using bandwidth-duration localized three-channel filter bank. Computers and Electrical Engineering, 2018, 72, 191-202.	3.0	39
10	Automated seizure prediction. Epilepsy and Behavior, 2018, 88, 251-261.	0.9	125
11	Photoplethysmography and Deep Learning: Enhancing Hypertension Risk Stratification. Biosensors, 2018, 8, 101.	2.3	115
12	Deep Learning for Pulse Detection in Out-of-Hospital Cardiac Arrest Using the ECG. , 2018, , .		2
13	Application of TQWT based filter-bank for sleep apnea screening using ECG signals. Journal of Ambient Intelligence and Humanized Computing, 0, , $1.$	3.3	32
14	Potentiality of deep learning application in healthcare. Computer Methods and Programs in Biomedicine, 2018, 161, A1.	2.6	9
15	Application of an optimal class of antisymmetric wavelet filter banks for obstructive sleep apnea diagnosis using ECG signals. Computers in Biology and Medicine, 2018, 100, 100-113.	3.9	86
16	EMG Pattern Recognition in the Era of Big Data and Deep Learning. Big Data and Cognitive Computing, 2018, 2, 21.	2.9	165
17	A novel automated diagnostic system for classification of myocardial infarction ECG signals using an optimal biorthogonal filter bank. Computers in Biology and Medicine, 2018, 102, 341-356.	3.9	85
18	Identification of Auditory Object-Specific Attention from Single-Trial Electroencephalogram Signals via Entropy Measures and Machine Learning. Entropy, 2018, 20, 386.	1.1	15

#	Article	IF	CITATIONS
19	MMSFL-OWFB: A novel class of orthogonal wavelet filters for epileptic seizure detection. Knowledge-Based Systems, 2018, 160, 265-277.	4.0	86
20	Automated detection of atrial fibrillation using long short-term memory network with RR interval signals. Computers in Biology and Medicine, 2018, 102, 327-335.	3.9	214
21	Automated diagnosis of atrial fibrillation ECG signals using entropy features extracted from flexible analytic wavelet transform. Biocybernetics and Biomedical Engineering, 2018, 38, 564-573.	3.3	80
22	Use of features from RR-time series and EEG signals for automated classification of sleep stages in deep neural network framework. Biocybernetics and Biomedical Engineering, 2018, 38, 890-902.	3.3	118
23	Automated diagnosis of celiac disease using DWT and nonlinear features with video capsule endoscopy images. Future Generation Computer Systems, 2019, 90, 86-93.	4.9	22
24	A Deep Learning Framework for Decoding Motor Imagery Tasks of the Same Hand Using EEG Signals. IEEE Access, 2019, 7, 109612-109627.	2.6	46
25	VR Sickness Prediction for Navigation in Immersive Virtual Environments using a Deep Long Short Term Memory Model. , 2019, , .		28
26	Advancing Artificial Intelligence in Sensors, Signals, and Imaging Informatics. Yearbook of Medical Informatics, 2019, 28, 115-117.	0.8	4
27	Detection of QRS Complexes Using Convolutional Neural Network., 2019,,.		1
28	Deep ECG-Respiration Network (DeepER Net) for Recognizing Mental Stress. Sensors, 2019, 19, 3021.	2.1	46
29	EEGâ€based outcome prediction after cardiac arrest with convolutional neural networks: Performance and visualization of discriminative features. Human Brain Mapping, 2019, 40, 4606-4617.	1.9	48
30	Artificial Neuroplasticity with Deep Learning Reconstruction Signals to Reconnect Motion Signals for the Spinal Cord. Advances in Predictive, Preventive and Personalised Medicine, 2019, , 11-20.	0.6	0
31	Analytic network process: Academic insights and perspectives analysis. Journal of Cleaner Production, 2019, 235, 1276-1294.	4.6	62
32	Deep Learning Based on Event-Related EEG Differentiates Children with ADHD from Healthy Controls. Journal of Clinical Medicine, 2019, 8, 1055.	1.0	70
33	Deep Convolutional Neural Network Model for Automated Diagnosis of Schizophrenia Using EEG Signals. Applied Sciences (Switzerland), 2019, 9, 2870.	1.3	194
34	A Survey on Deep Learning in Electromyographic Signal Analysis. Lecture Notes in Computer Science, 2019, , 751-761.	1.0	13
35	Improving the safety of atrial fibrillation monitoring systems through human verification. Safety Science, 2019, 118, 881-886.	2.6	11
36	Deep Learning and Big Data in Healthcare: A Double Review for Critical Beginners. Applied Sciences (Switzerland), 2019, 9, 2331.	1.3	71

#	Article	IF	CITATIONS
37	Machine learning-based coronary artery disease diagnosis: A comprehensive review. Computers in Biology and Medicine, 2019, 111, 103346.	3.9	131
38	A spatio-temporal model for EEG-based person identification. Multimedia Tools and Applications, 2019, 78, 28157-28177.	2.6	26
39	Exploring Deep Physiological Models for Nociceptive Pain Recognition. Sensors, 2019, 19, 4503.	2.1	39
40	Using Lempel-Ziv complexity as effective classification tool of the sleep-related breathing disorders. Computer Methods and Programs in Biomedicine, 2019, 182, 105052.	2.6	9
41	Investigating Ensemble Learning and Classifier Generalization in a Hybrid, Passive Brain-Computer Interface for Assessing Cognitive Workload*., 2019, 2019, 3543-3546.		1
42	A hybrid model for EEG-based gender recognition. Cognitive Neurodynamics, 2019, 13, 541-554.	2.3	25
43	Artificial Intelligence for Mental Health and Mental Illnesses: an Overview. Current Psychiatry Reports, 2019, 21, 116.	2.1	302
44	Prediction of Patient-specific Acute Hypotensive Episodes in ICU Using Deep Models., 2019, 2019, 566-569.		1
45	Computer-assisted EEG diagnostic review for idiopathic generalized epilepsy. Epilepsy and Behavior, 2021, 121, 106556.	0.9	35
46	Automated arrhythmia detection using novel hexadecimal local pattern and multilevel wavelet transform with ECG signals. Knowledge-Based Systems, 2019, 186, 104923.	4.0	164
47	ReBNN: in-situ acceleration of binarized neural networks in ReRAM using complementary resistive cell. CCF Transactions on High Performance Computing, 2019, 1, 196-208.	1.1	11
48	A Convolutional Neural Network for Enhancing the Detection of SSVEP in the Presence of Competing Stimuli., 2019, 2019, 6323-6326.		7
49	Internet of medical things for smart D3S to enable road safety. International Journal of Distributed Sensor Networks, 2019, 15, 155014771986488.	1.3	4
50	A Prototype Implementation of Visible Light Communication Based Electrocardiography Data Transmission. Journal of Physics: Conference Series, 2019, 1201, 012018.	0.3	0
51	State-of-the-Art Review on the Applicability of Al Methods to Automated Construction Manufacturing. , 2019, , .		10
52	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.	3.9	96
53	Classification of Motor Imagery Signals by Convolutional Neural Network for BCI Applications. , 2019,		2
54	Aiding the Diagnosis of Diabetic and Hypertensive Retinopathy Using Artificial Intelligence-Based Semantic Segmentation. Journal of Clinical Medicine, 2019, 8, 1446.	1.0	65

#	Article	IF	Citations
55	An Improved Pooling Scheme for Convolutional Neural Networks. , 2019, , .		3
56	Automated Heartbeat Classification Based on Convolutional Neural Network with Multiple Kernel Sizes., 2019,,.		5
57	Opportunities and Challenges in Health Sensing for Extreme Industrial Environment: Perspectives From Underground Mines. IEEE Access, 2019, 7, 139181-139195.	2.6	37
58	Wearables, Biomechanical Feedback, and Human Motor-Skills' Learning & Optimization. Applied Sciences (Switzerland), 2019, 9, 226.	1.3	29
59	Detecting Diseases by Human-Physiological-Parameter-Based Deep Learning. IEEE Access, 2019, 7, 22002-22010.	2.6	17
60	A Novel Wearable Electrocardiogram Classification System Using Convolutional Neural Networks and Active Learning. IEEE Access, 2019, 7, 7989-8001.	2.6	44
61	Automatic segmentation of hyperreflective foci in OCT images. Computer Methods and Programs in Biomedicine, 2019, 178, 91-103.	2.6	26
62	Characterization of fibromyalgia using sleep EEG signals with nonlinear dynamical features. Computers in Biology and Medicine, 2019, 111, 103331.	3.9	26
63	ECG Beat Classification Based on Stationary Wavelet Transform. Lecture Notes in Computer Science, 2019, , 110-123.	1.0	3
64	A cascaded classifier for multi-lead ECG based on feature fusion. Computer Methods and Programs in Biomedicine, 2019, 178, 135-143.	2.6	21
65	A reversible and multipurpose ECG data hiding technique for telemedicine applications. Pattern Recognition Letters, 2019, 125, 463-473.	2.6	43
66	A runtime-adaptive cognitive IoT node for healthcare monitoring. , 2019, , .		10
67	Automated Depression Detection Using Deep Representation and Sequence Learning with EEG Signals. Journal of Medical Systems, 2019, 43, 205.	2.2	150
68	Spectral information of EEG signals with respect to epilepsy classification. Eurasip Journal on Advances in Signal Processing, 2019, 2019, .	1.0	77
69	Classification of diabetes-related retinal diseases using a deep learning approach in optical coherence tomography. Computer Methods and Programs in Biomedicine, 2019, 178, 181-189.	2.6	51
70	A RR interval based automated apnea detection approach using residual network. Computer Methods and Programs in Biomedicine, 2019, 176, 93-104.	2.6	52
71	A review of automated sleep stage scoring based on physiological signals for the new millennia. Computer Methods and Programs in Biomedicine, 2019, 176, 81-91.	2.6	104
72	Computer-aided diagnosis of congestive heart failure using ECG signals – A review. Physica Medica, 2019, 62, 95-104.	0.4	79

#	ARTICLE	IF	CITATIONS
73	A new approach for arrhythmia classification using deep coded features and LSTM networks. Computer Methods and Programs in Biomedicine, 2019, 176, 121-133.	2.6	245
74	Application of nonlinear methods to discriminate fractionated electrograms in paroxysmal versus persistent atrial fibrillation. Computer Methods and Programs in Biomedicine, 2019, 175, 163-178.	2.6	18
75	Assessing cognitive mental workload via EEG signals and an ensemble deep learning classifier based on denoising autoencoders. Computers in Biology and Medicine, 2019, 109, 159-170.	3.9	47
76	Big data and machine learning algorithms for health-care delivery. Lancet Oncology, The, 2019, 20, e262-e273.	5.1	733
77	Physiological-signal-based mental workload estimation via transfer dynamical autoencoders in a deep learning framework. Neurocomputing, 2019, 347, 212-229.	3.5	25
78	Deep Learning in the Biomedical Applications: Recent and Future Status. Applied Sciences (Switzerland), 2019, 9, 1526.	1.3	120
79	A Feature Extraction Method Based on Differential Entropy and Linear Discriminant Analysis for Emotion Recognition. Sensors, 2019, 19, 1631.	2.1	57
80	Automated diagnosis of celiac disease by video capsule endoscopy using DAISY Descriptors. Journal of Medical Systems, 2019, 43, 157.	2.2	12
81	Automated detection of sleep apnea using sparse residual entropy features with various dictionaries extracted from heart rate and EDR signals. Computers in Biology and Medicine, 2019, 108, 20-30.	3.9	47
82	Design of Plant Protection UAV Variable Spray System Based on Neural Networks. Sensors, 2019, 19, 1112.	2.1	28
83	Deep Neural Networks for ECG-Based Pulse Detection during Out-of-Hospital Cardiac Arrest. Entropy, 2019, 21, 305.	1.1	50
84	A new approach to identify obstructive sleep apnea using an optimal orthogonal wavelet filter bank with ECG signals. Informatics in Medicine Unlocked, 2019, 16, 100170.	1.9	55
85	Continuous monitoring and detection of post-traumatic stress disorder (PTSD) triggers among veterans: A supervised machine learning approach. IISE Transactions on Healthcare Systems Engineering, 2019, 9, 201-211.	1.2	33
86	A hierarchical method based on weighted extreme gradient boosting in ECG heartbeat classification. Computer Methods and Programs in Biomedicine, 2019, 171, 1-10.	2.6	98
87	A Deep Learning Model for Automated Sleep Stages Classification Using PSG Signals. International Journal of Environmental Research and Public Health, 2019, 16, 599.	1.2	169
88	ACCURATE DETECTION OF SEIZURE USING NONLINEAR PARAMETERS EXTRACTED FROM EEG SIGNALS. Journal of Mechanics in Medicine and Biology, 2019, 19, 1940004.	0.3	9
89	AUTOMATED CHARACTERIZATION OF CARDIOVASCULAR DISEASES USING WAVELET TRANSFORM FEATURES EXTRACTED FROM ECG SIGNALS. Journal of Mechanics in Medicine and Biology, 2019, 19, 1940009.	0.3	12
90	AUTOMATION OF MR BRAIN IMAGE CLASSIFICATION FOR MALIGNANCY DETECTION. Journal of Mechanics in Medicine and Biology, 2019, 19, 1940002.	0.3	7

#	Article	IF	CITATIONS
91	EMPIRICAL MODE DECOMPOSITION-BASED PROCESSING FOR AUTOMATED DETECTION OF EPILEPSY. Journal of Mechanics in Medicine and Biology, 2019, 19, 1940003.	0.3	4
92	CONVOLUTIONAL LONG-SHORT TERM MEMORY NETWORKS MODEL FOR LONG DURATION EEG SIGNAL CLASSIFICATION. Journal of Mechanics in Medicine and Biology, 2019, 19, 1940005.	0.3	17
93	Deep learning for time series classification: a review. Data Mining and Knowledge Discovery, 2019, 33, 917-963.	2.4	1,656
94	A NOVEL APPROACH FOR EPILEPSY DETECTION USING TIME–FREQUENCY LOCALIZED BI-ORTHOGONAL WAVELET FILTER. Journal of Mechanics in Medicine and Biology, 2019, 19, 1940007.	0.3	32
95	HEART-RATE BASED SLEEP APNEA DETECTION USING ARDUINO. Journal of Mechanics in Medicine and Biology, 2019, 19, 1940006.	0.3	6
96	Classification of myocardial infarction with multi-lead ECG signals and deep CNN. Pattern Recognition Letters, 2019, 122, 23-30.	2.6	292
97	A smart architecture design for health remote monitoring systems and heterogeneous wireless sensor network technologies: a machine learning breathlessness prediction prototype. International Journal of Intelligent Enterprise, 2019, 6, 293.	0.1	4
98	GACNN SleepTuneNet: a genetic algorithm designing the convolutional neuralnetwork architecture for optimal classification ofsleep stages from a single EEG channel. Turkish Journal of Electrical Engineering and Computer Sciences, 2019, 27, 4203-4219.	0.9	7
99	Distilled Deep Learning based Classification of Abnormal Heartbeat Using ECG Data through a Low Cost Edge Device. , $2019, , .$		6
100	Quality Assessment of Very Long-Term ECG Recordings Using a Convolutional Neural Network. , 2019, , .		11
101	Hybrid Convolutional Recurrent Neural Networks Outperform CNN and RNN in Task-state EEG Detection for Parkinson's Disease. , 2019, , .		31
102	Exploration of Deep Learning Techniques in Big Data Analytics. , 2019, , .		1
103	Predicting Blood Glucose Levels with EMD and LSTM Based CGM Data., 2019,,.		8
104	CNN based Off-the-Person ECG Biometrics. , 2019, , .		10
105	Machine Learning for Classification and Control of Cardiac Arrhythmias. , 2019, , .		0
106	Emotion Recognition Using Fused Physiological Signals. , 2019, , .		23
107	A Deep Learning Based Autonomous Mobile Robotic Assistive Care Giver. , 2019, , .		1
108	Early Prediction of Vital Signs Using Generative Boosting via LSTM Networks. , 2019, , .		6

#	Article	IF	CITATIONS
109	EEG-Based Emotion Recognition with Combined Deep Neural Networks using Decomposed Feature Clustering Model. , 2019, , .		2
110	Decoding Movement From Electrocorticographic Activity: A Review. Frontiers in Neuroinformatics, 2019, 13, 74.	1.3	61
111	Hypertension Diagnosis Index for Discrimination of High-Risk Hypertension ECG Signals Using Optimal Orthogonal Wavelet Filter Bank. International Journal of Environmental Research and Public Health, 2019, 16, 4068.	1.2	30
112	Cardiac Arrhythmia Detection from 2D ECG Images by Using Deep Learning Technique., 2019, , .		55
113	What are steering pictures are worth? Using image-based steering features to detect drowsiness on rural roads. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 2041-2045.	0.2	3
114	A Long Short-Term Memory Ensemble Approach for Improving the Outcome Prediction in Intensive Care Unit. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-10.	0.7	21
115	Analysis on frequency-dependency of conductive signal transmission channel for wearable devices. IEICE Electronics Express, 2019, 16, 20190388-20190388.	0.3	2
116	EEG-Based Multi-Modal Emotion Recognition using Bag of Deep Features: An Optimal Feature Selection Approach. Sensors, 2019, 19, 5218.	2.1	68
117	EMG-based Continuous Prediction of the Upper Limb Elbow Joint Angle Using GRNN. , 2019, , .		4
118	From deep learning to transfer learning for the prediction of skeletal muscle forces. Medical and Biological Engineering and Computing, 2019, 57, 1049-1058.	1.6	46
119	A novel 3D position measurement and structure prediction method for RFID tag group based on deep belief network. Measurement: Journal of the International Measurement Confederation, 2019, 136, 25-35.	2.5	8
120	A novel machine learning approach for early detection of hepatocellular carcinoma patients. Cognitive Systems Research, 2019, 54, 116-127.	1.9	88
121	An efficient detection of congestive heart failure using frequency localized filter banks for the diagnosis with ECG signals. Cognitive Systems Research, 2019, 55, 82-94.	1.9	44
122	Automated classification of hand movements using tunable-Q wavelet transform based filter-bank with surface electromyogram signals. Future Generation Computer Systems, 2019, 93, 96-110.	4.9	45
123	Deep Learning in Cardiology. IEEE Reviews in Biomedical Engineering, 2019, 12, 168-193.	13.1	109
124	A deep convolutional neural network model for automated identification of abnormal EEG signals. Neural Computing and Applications, 2020, 32, 15857-15868.	3.2	107
125	Adaptive computing-based biometric security for intelligent medical applications. Neural Computing and Applications, 2020, 32, 11055-11064.	3.2	21
126	A deep learning approach for Parkinson's disease diagnosis from EEG signals. Neural Computing and Applications, 2020, 32, 10927-10933.	3.2	317

#	Article	IF	CITATIONS
127	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.	3.2	9
128	Posture transition analysis with barometers: contribution to accelerometer-based algorithms. Neural Computing and Applications, 2020, 32, 335-349.	3.2	5
129	Automated heartbeat classification based on deep neural network with multiple input layers. Knowledge-Based Systems, 2020, 188, 105036.	4.0	63
130	Simultaneous feature selection and heterogeneity control for SVM classification: An application to mental workload assessment. Expert Systems With Applications, 2020, 143, 112988.	4.4	25
131	ML–ResNet: A novel network to detect and locate myocardial infarction using 12 leads ECG. Computer Methods and Programs in Biomedicine, 2020, 185, 105138.	2.6	112
132	Integrating model- and data-driven methods for synchronous adaptive multi-band image fusion. Information Fusion, 2020, 54, 145-160.	11.7	23
133	A Deep Convolutional Neural Network Approach to Classify Normal and Abnormal Gastric Slow Wave Initiation From the High Resolution Electrogastrogram. IEEE Transactions on Biomedical Engineering, 2020, 67, 854-867.	2.5	18
134	A review on video-based active and assisted living technologies for automated lifelogging. Expert Systems With Applications, 2020, 139, 112847.	4.4	42
135	A hybrid Local Binary Pattern and wavelets based approach for EEG classification for diagnosing epilepsy. Expert Systems With Applications, 2020, 140, 112895.	4.4	51
136	Automatic detection of breathing disorder from ballistocardiography signals. Knowledge-Based Systems, 2020, 188, 104973.	4.0	12
137	HealthFog: An ensemble deep learning based Smart Healthcare System for Automatic Diagnosis of Heart Diseases in integrated IoT and fog computing environments. Future Generation Computer Systems, 2020, 104, 187-200.	4.9	391
138	Automated Detection of Sleep Stages Using Energy-Localized Orthogonal Wavelet Filter Banks. Arabian Journal for Science and Engineering, 2020, 45, 2531-2544.	1.7	27
139	Wearable electroencephalography technologies for brain–computer interfacing. , 2020, , 55-78.		11
140	Classification of user competency levels using EEG and convolutional neural network in 3D modelling application. Expert Systems With Applications, 2020, 146, 113202.	4.4	4
141	Machine Learning Approach to Detect Cardiac Arrhythmias in ECG Signals: A Survey. Irbm, 2020, 41, 185-194.	3.7	77
142	ECG Heartbeat Classification Using Convolutional Neural Networks. IEEE Access, 2020, 8, 8614-8619.	2.6	75
143	A review of feature extraction and performance evaluation in epileptic seizure detection using EEG. Biomedical Signal Processing and Control, 2020, 57, 101702.	3.5	195
144	Computational approaches for detection of cardiac rhythm abnormalities: Are we there yet?. Journal of Electrocardiology, 2020, 59, 28-34.	0.4	6

#	Article	IF	Citations
145	Multi-domain modeling of atrial fibrillation detection with twin attentional convolutional long short-term memory neural networks. Knowledge-Based Systems, 2020, 193, 105460.	4.0	72
146	Towards Automatic and Fast Annotation of Seismocardiogram Signals Using Machine Learning. IEEE Sensors Journal, 2020, 20, 2578-2589.	2.4	24
147	Automatic digital ECG signal extraction and normal QRS recognition from real scene ECG images. Computer Methods and Programs in Biomedicine, 2020, 187, 105254.	2.6	19
148	An incremental learning system for atrial fibrillation detection based on transfer learning and active learning. Computer Methods and Programs in Biomedicine, 2020, 187, 105219.	2.6	41
149	Disentangled Adversarial Transfer Learning for Physiological Biosignals. , 2020, 2020, 422-425.		3
150	Disentangled Adversarial Autoencoder for Subject-Invariant Physiological Feature Extraction. IEEE Signal Processing Letters, 2020, 27, 1565-1569.	2.1	16
151	Deep MLP-CNN Model Using Mixed-Data to Distinguish between COVID-19 and Non-COVID-19 Patients. Symmetry, 2020, 12, 1526.	1.1	77
152	Can artificial intelligence achieve human-level performance? A pilot study of childhood sexual abuse detection in self-figure drawings. Child Abuse and Neglect, 2020, 109, 104755.	1.3	18
153	Denoising Algorithm for Event-Related Desynchronization-Based Motor Intention Recognition in Robot-assisted Stroke Rehabilitation Training with Brain-Machine Interaction. Journal of Neuroscience Methods, 2020, 346, 108909.	1.3	8
154	Neural Memory Networks for Seizure Type Classification. , 2020, 2020, 569-575.		28
155	Diagnose ADHD disorder in children using convolutional neural network based on continuous mental task EEG. Computer Methods and Programs in Biomedicine, 2020, 197, 105738.	2.6	68
156	DDxNet: a deep learning model for automatic interpretation of electronic health records, electrocardiograms and electroencephalograms. Scientific Reports, 2020, 10, 16428.	1.6	14
157	Driven by Data or Derived Through Physics? A Review of Hybrid Physics Guided Machine Learning Techniques With Cyber-Physical System (CPS) Focus. IEEE Access, 2020, 8, 71050-71073.	2.6	135
158	Extracellular Vesicle Identification Using Label-Free Surface-Enhanced Raman Spectroscopy: Detection and Signal Analysis Strategies. Molecules, 2020, 25, 5209.	1.7	21
159	Machine learning for human learners: opportunities, issues, tensions and threats. Educational Technology Research and Development, 2021, 69, 2109-2130.	2.0	38
160	Decision Support System for Classification Medullary Thyroid Cancer. IEEE Access, 2020, 8, 145216-145226.	2.6	7
162	Design and control of an exoskeleton robot with EMG-driven electrical stimulation for upper limb rehabilitation. Industrial Robot, 2020, 47, 489-501.	1.2	26
163	An End-to-End Multi-Level Wavelet Convolutional Neural Networks for heart diseases diagnosis. Neurocomputing, 2020, 417, 187-201.	3.5	25

#	Article	IF	Citations
164	A compact and cost-effective pattern recognition based myoelectric control system for robotic prosthetic hands. , 2020, , .		3
165	Artificial intelligence for clinical decision support in neurology. Brain Communications, 2020, 2, fcaa096.	1.5	41
166	Decentralized convolutional neural network for evaluating spinal deformity with spinopelvic parameters. Computer Methods and Programs in Biomedicine, 2020, 197, 105699.	2.6	10
167	Machine Learning-Based Automatic Detection of Central Sleep Apnea Events From a Pressure Sensitive Mat. IEEE Access, 2020, 8, 173428-173439.	2.6	21
168	A Smart Service Platform for Cost Efficient Cardiac Health Monitoring. International Journal of Environmental Research and Public Health, 2020, 17, 6313.	1.2	24
169	Deep Learning Based Systems Developed for Fall Detection: A Review. IEEE Access, 2020, 8, 166117-166137.	2.6	63
170	Shock Decision Algorithms for Automated External Defibrillators Based on Convolutional Networks. IEEE Access, 2020, 8, 154746-154758.	2.6	8
171	Transfer learning with deep convolutional neural network for automated detection of schizophrenia from EEG signals. Physical and Engineering Sciences in Medicine, 2020, 43, 1229-1239.	1.3	70
172	A Time-Frequency Distribution-Based Approach for Decoding Visually Imagined Objects Using EEG Signals. IEEE Access, 2020, 8, 138955-138972.	2.6	10
173	Real-Time Sleep Apnea Diagnosis Method Using Wearable Device without External Sensors. , 2020, , .		4
174	Human Activity Recognition Using Inertial, Physiological and Environmental Sensors: A Comprehensive Survey. IEEE Access, 2020, 8, 210816-210836.	2.6	182
175	A deep learning model to screen for Corona Virus Disease (COVID-19) from X-ray chest images. , 2020, , .		7
176	Recognition of Upper-limb Movement Using Electroencephalogram Signals with Deep Learning. , 2020, , .		4
177	A New Multichannel Parallel Network Framework for the Special Structure of Multilead ECG. Journal of Healthcare Engineering, 2020, 2020, 1-15.	1.1	2
178	Automated Detection of Sleep Stages Using Deep Learning Techniques: A Systematic Review of the Last Decade (2010–2020). Applied Sciences (Switzerland), 2020, 10, 8963.	1.3	65
179	Soft-Label Anonymous Gastric X-Ray Image Distillation. , 2020, , .		15
180	Multi-view deep learning for rigid gas permeable lens base curve fitting based on Pentacam images. Medical and Biological Engineering and Computing, 2020, 58, 1467-1482.	1.6	6
181	A Review of Atrial Fibrillation Detection Methods as a Service. International Journal of Environmental Research and Public Health, 2020, 17, 3093.	1.2	25

#	Article	IF	CITATIONS
182	The Use of Big Data Analytics in Medical Images: a Survey. , 2020, , .		2
183	Detection of Atrial Fibrillation from Single Lead ECG Signal Using Multirate Cosine Filter Bank and Deep Neural Network. Journal of Medical Systems, 2020, 44, 114.	2.2	36
184	Proposing a convolutional neural network for stress assessment by means of derived heart rate from functional near infrared spectroscopy. Computers in Biology and Medicine, 2020, 121, 103810.	3.9	19
185	Control of transhumeral prostheses based on electromyography pattern recognition: from amputees to deep learning. , 2020, , 1-21.		3
186	Remote tracking of Parkinson's Disease progression using ensembles of Deep Belief Network and Self-Organizing Map. Expert Systems With Applications, 2020, 159, 113562.	4.4	49
187	Arrhythmia Classification with ECG signals based on the Optimization-Enabled Deep Convolutional Neural Network. Computer Methods and Programs in Biomedicine, 2020, 196, 105607.	2.6	80
188	Emotion Recognition Using Convolutional Neural Network with Selected Statistical Photoplethysmogram Features. Applied Sciences (Switzerland), 2020, 10, 3501.	1.3	33
189	The complexity of clinically-normal sinus-rhythm ECGs is decreased in equine athletes with a diagnosis of paroxysmal atrial fibrillation. Scientific Reports, 2020, 10, 6822.	1.6	10
190	Automatic multilabel electrocardiogram diagnosis of heart rhythm or conduction abnormalities with deep learning: a cohort study. The Lancet Digital Health, 2020, 2, e348-e357.	5.9	103
191	An adaptive two-scale biomedical image fusion method with statistical comparisons. Computer Methods and Programs in Biomedicine, 2020, 196, 105603.	2.6	15
192	EEG-Rhythm Specific Taylor–Fourier Filter Bank Implemented With O-Splines for the Detection of Epilepsy Using EEG Signals. IEEE Sensors Journal, 2020, 20, 6542-6551.	2.4	60
193	Automated detection of abnormal EEG signals using localized wavelet filter banks. Pattern Recognition Letters, 2020, 133, 188-194.	2.6	76
194	Automated invasive ductal carcinoma detection based using deep transfer learning with whole-slide images. Pattern Recognition Letters, 2020, 133, 232-239.	2.6	207
195	Machine learning in nephrology: scratching the surface. Chinese Medical Journal, 2020, , 687-698.	0.9	14
196	A-phase classification using convolutional neural networks. Medical and Biological Engineering and Computing, 2020, 58, 1003-1014.	1.6	9
197	Classification of electromyographic hand gesture signals using machine learning techniques. Neurocomputing, 2020, 401, 236-248.	3.5	45
198	Applying deep learning to single-trial EEG data provides evidence for complementary theories on action control. Communications Biology, 2020, 3, 112.	2.0	58
199	Epileptic Seizures Prediction Using Deep Learning Techniques. IEEE Access, 2020, 8, 39998-40007.	2.6	106

#	Article	IF	CITATIONS
200	A bibliometric analysis on deep learning during 2007–2019. International Journal of Machine Learning and Cybernetics, 2020, 11, 2807-2826.	2.3	39
201	Augmenting Dementia Cognitive Assessment With Instruction-Less Eye-Tracking Tests. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3066-3075.	3.9	22
202	Using the VQ-VAE to improve the recognition of abnormalities in short-duration 12-lead electrocardiogram records. Computer Methods and Programs in Biomedicine, 2020, 196, 105639.	2.6	17
203	Detection of sleep apnea from heart beat interval and ECG derived respiration signals using sliding mode singular spectrum analysis., 2020, 104, 102796.		44
204	An Innovative Multi-Model Neural Network Approach for Feature Selection in Emotion Recognition Using Deep Feature Clustering. Sensors, 2020, 20, 3765.	2.1	28
205	An innovative approach to integrate unequal protection-based steganography and progressive transmission of physiological data. SN Applied Sciences, 2020, 2, 1.	1.5	5
206	Unsupervised bin-wise pre-training: A fusion of information theory and hypergraph. Knowledge-Based Systems, 2020, 195, 105650.	4.0	6
207	Hybrid Network with Attention Mechanism for Detection and Location of Myocardial Infarction Based on 12-Lead Electrocardiogram Signals. Sensors, 2020, 20, 1020.	2.1	62
208	Deep Learning in Physiological Signal Data: A Survey. Sensors, 2020, 20, 969.	2.1	131
209	Comprehensive electrocardiographic diagnosis based on deep learning. Artificial Intelligence in Medicine, 2020, 103, 101789.	3.8	137
210	Comparing user-dependent and user-independent training of CNN for SSVEP BCI. Journal of Neural Engineering, 2020, 17, 026028.	1.8	76
211	1D-CADCapsNet: One dimensional deep capsule networks for coronary artery disease detection using ECG signals. Physica Medica, 2020, 70, 39-48.	0.4	53
212	Automated detection of heart valve diseases using chirplet transform and multiclass composite classifier with PCG signals. Computers in Biology and Medicine, 2020, 118, 103632.	3.9	83
213	Review of metal oxide semiconductors-based thin-film transistors for point-of-care sensor applications. Journal of Information Display, 2020, 21, 203-210.	2.1	38
214	Cyber–Physiochemical Interfaces. Advanced Materials, 2020, 32, e1905522.	11.1	64
215	Validating the robustness of an internet of things based atrial fibrillation detection system. Pattern Recognition Letters, 2020, 133, 55-61.	2.6	16
216	AccPar: Tensor Partitioning for Heterogeneous Deep Learning Accelerators. , 2020, , .		24
217	Automated detection of COVID-19 cases using deep neural networks with X-ray images. Computers in Biology and Medicine, 2020, 121, 103792.	3.9	1,856

#	Article	IF	CITATIONS
218	Analyzing Lung Disease Using Highly Effective Deep Learning Techniques. Healthcare (Switzerland), 2020, 8, 107.	1.0	16
219	Electrocardiographic right ventricular strain precedes hypoxic pulseless electrical activity cardiac arrests: Looking beyond pulmonary embolism. Resuscitation, 2020, 151, 127-134.	1.3	8
220	A multistage deep neural network model for blood pressure estimation using photoplethysmogram signals. Computers in Biology and Medicine, 2020, 120, 103719.	3.9	76
221	Application of deep learning techniques for heartbeats detection using ECG signals-analysis and review. Computers in Biology and Medicine, 2020, 120, 103726.	3.9	171
222	Parallelism in Deep Learning Accelerators. , 2020, , .		0
223	Merging RFID and Blockchain Technologies to Accelerate Big Data Medical Research Based on Physiological Signals. Journal of Healthcare Engineering, 2020, 2020, 1-17.	1.1	12
224	Softâ∈"Hard Composites for Bioelectric Interfaces. Trends in Chemistry, 2020, 2, 519-534.	4.4	21
225	Classification of Electromyographic Hand Gesture Signals Using Modified Fuzzy C-Means Clustering and Two-Step Machine Learning Approach. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1428-1435.	2.7	33
226	Entropy-Based Pattern Learning Based on Singular Spectrum Analysis Components for Assessment of Physiological Signals. Complexity, 2020, 2020, 1-17.	0.9	6
227	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.	3.9	27
228	A morphology based deep learning model for atrial fibrillation detection using single cycle electrocardiographic samples. International Journal of Cardiology, 2020, 316, 130-136.	0.8	28
229	Using off-the-shelf data-human interface platforms: traps and tricks. Multimedia Tools and Applications, 2021, 80, 12907-12929.	2.6	0
230	Intelligent and Efficient Detection of Life-Threatening Ventricular Arrhythmias in Short Segments of Surface ECG Signals. IEEE Sensors Journal, 2021, 21, 14110-14120.	2.4	15
231	Innovative deep learning models for EEG-based vigilance detection. Neural Computing and Applications, 2021, 33, 6921-6937.	3.2	28
232	A comprehensive comparison of handcrafted features and convolutional autoencoders for epileptic seizures detection in EEG signals. Expert Systems With Applications, 2021, 163, 113788.	4.4	94
233	A novel statistical decimal pattern-based surface electromyogram signal classification method using tunable q-factor wavelet transform. Soft Computing, 2021, 25, 1085-1098.	2.1	8
234	Major depressive disorder diagnosis based on effective connectivity in EEG signals: a convolutional neural network and long short-term memory approach. Cognitive Neurodynamics, 2021, 15, 239-252.	2.3	89
235	Synthetic CT images for semi-sequential detection and segmentation of lung nodules. Applied Intelligence, 2021, 51, 1616-1628.	3.3	15

#	Article	IF	CITATIONS
236	Deep learning for motor imagery EEG-based classification: A review. Biomedical Signal Processing and Control, 2021, 63, 102172.	3.5	178
237	Performance improvement of P300-based home appliances control classification using convolution neural network. Biomedical Signal Processing and Control, 2021, 63, 102220.	3.5	13
238	Hybrid models based on genetic algorithm and deep learning algorithms for nutritional Anemia disease classification. Biomedical Signal Processing and Control, 2021, 63, 102231.	3.5	51
239	Accurate detection of sleep apnea with long short-term memory network based on RR interval signals. Knowledge-Based Systems, 2021, 212, 106591.	4.0	37
240	Spectral features based convolutional neural network for accurate and prompt identification of schizophrenic patients. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 167-184.	1.0	50
241	Quantitative approach of multidimensional interactive sensing for rice quality using electronic tongue sensor array based on information entropy. Sensors and Actuators B: Chemical, 2021, 329, 129254.	4.0	15
242	Deep learning for processing electromyographic signals: A taxonomy-based survey. Neurocomputing, 2021, 452, 549-565.	3.5	34
243	Towards assisted electrocardiogram interpretation using an Al-enabled Augmented Reality headset. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2021, 9, 349-356.	1.3	2
244	Automated Nociceptive Pain Assessment Using Physiological Signals and a Hybrid Deep Learning Network. IEEE Sensors Journal, 2021, 21, 3335-3343.	2.4	32
245	Hybrid particle swarm optimization for rule discovery in the diagnosis of coronary artery disease. Expert Systems, 2021, 38, .	2.9	50
246	Delineation of the electrocardiogram with a mixed-quality-annotations dataset using convolutional neural networks. Scientific Reports, 2021, 11, 863.	1.6	31
247	Multi Sensorial Stimulation Lab: A New Approach for Severe Dementia. Lecture Notes in Electrical Engineering, 2021, , 65-81.	0.3	0
248	ManoMap: an automated system for characterization of colonic propagating contractions recorded by high-resolution manometry. Medical and Biological Engineering and Computing, 2021, 59, 417-429.	1.6	10
249	Accurate classification of heart sounds for disease diagnosis by using spectral analysis and deep learning methods., 2021,, 215-232.		3
250	Detecting Cognitive Features of Videos Using EEG Signal. Computer Journal, 2022, 65, 105-123.	1.5	2
251	Detection of Cardiac problems by the Extraction of Multimodal functions and Machine Learning techniques. IOP Conference Series: Materials Science and Engineering, 0, 1022, 012124.	0.3	3
252	A Comprehensive Survey on Emotion Based Health Prediction Using Internet of Things and Machine Learning. Lecture Notes in Networks and Systems, 2021, , 173-182.	0.5	1
253	A survey on the applications of Deep Neural Networks. , 2021, , .		15

#	Article	IF	Citations
254	Advanced analysis of biomedical signals. , 2021, , 157-222.		5
255	FCOD: Fast COVID-19 Detector based on deep learning techniques. Informatics in Medicine Unlocked, 2021, 22, 100506.	1.9	26
256	AutoBayes: Automated Bayesian Graph Exploration for Nuisance- Robust Inference. IEEE Access, 2021, 9, 39955-39972.	2.6	5
257	Deep Learning for Melanoma Detection with Testing Time Data Augmentation. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 131-140.	0.5	9
258	A Systematic Review of Thermal and Cognitive Stress Indicators: Implications for Use Scenarios on Sensor-Based Stress Detection. Lecture Notes in Computer Science, 2021, , 73-92.	1.0	0
259	A comprehensive survey of deep learning in the field of medical imaging and medical natural language processing: Challenges and research directions. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 5083-5099.	2.7	27
260	Deep Learning and RFID System Physical Anti-Collision. , 2021, , 201-237.		0
261	Perspective and Experiences of Decision Support Systems (DSS) and AI in Prevention and Care for Older Adults. Research for Development, 2021, , 115-128.	0.2	1
262	Improving Recurrent Neural Network Responsiveness to Acute Clinical Events. IEEE Access, 2021, 9, 106140-106151.	2.6	1
263	Reduction of Motion Artifacts From Remote Photoplethysmography Using Adaptive Noise Cancellation and Modified HSI Model. IEEE Access, 2021, 9, 122655-122667.	2.6	6
264	Diagnosis of COVID-19 Infection Using Three-Dimensional Semantic Segmentation and Classification of Computed Tomography Images. Computers, Materials and Continua, 2021, 68, 2451-2467.	1.5	12
265	Deep learning and the electrocardiogram: review of the current state-of-the-art. Europace, 2021, 23, 1179-1191.	0.7	111
266	Enhancing the Encoding-Forecasting Model for Precipitation Nowcasting by Putting High Emphasis on the Latest Data of the Time Step. Atmosphere, 2021, 12, 261.	1.0	11
267	Automatic Measurement of Pennation Angle from Ultrasound Images using Resnets. Ultrasonic Imaging, 2021, 43, 74-87.	1.4	9
268	Future <scp>loT</scp> tools for <scp>COVID</scp> â€19 contact tracing and prediction: A review of the stateâ€ofâ€theâ€science. International Journal of Imaging Systems and Technology, 2021, 31, 455-471.	2.7	58
269	A Deep Learning Model for Automated Classification of Intraoperative Continuous EMG. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 44-52.	2.1	15
270	Risk-Based Care: Let's Think Outside the Box. Frontiers in Medicine, 2021, 8, 535244.	1.2	1
271	SOM-LWL method for identification of COVID-19 on chest X-rays. PLoS ONE, 2021, 16, e0247176.	1.1	21

#	Article	IF	CITATIONS
272	Healthcare Applications Using Biomedical Al System., 2021,, 99-123.		0
273	Recognizing diseases with multivariate physiological signals by a DeepCNN-LSTM network. Applied Intelligence, 2021, 51, 7933.	3.3	4
274	Transfer learning for ECG classification. Scientific Reports, 2021, 11, 5251.	1.6	95
275	NaturalAE: Natural and robust physical adversarial examples for object detectors. Journal of Information Security and Applications, 2021, 57, 102694.	1.8	12
276	Deep Learning for EMG-based Human-Machine Interaction: A Review. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 512-533.	8.5	161
277	Emotion recognition from EEG signals using empirical mode decomposition and second-order difference plot. Biomedical Signal Processing and Control, 2021, 65, 102389.	3.5	64
278	Facial Emotions Are Accurately Encoded in the Neural Signal of Those With Autism Spectrum Disorder: A Deep Learning Approach. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2022, 7, 688-695.	1.1	2
280	Detection and Classification of COVID 19 using Convolutional Neural Network from Chest X-ray Images. , 2021, , .		6
281	Epilepsy attacks recognition based on 1D octal pattern, wavelet transform and EEG signals. Multimedia Tools and Applications, 2021, 80, 25197-25218.	2.6	21
282	DepHNN: A novel hybrid neural network for electroencephalogram (EEG)-based screening of depression. Biomedical Signal Processing and Control, 2021, 66, 102393.	3.5	84
283	U-Sleep: resilient high-frequency sleep staging. Npj Digital Medicine, 2021, 4, 72.	5.7	117
284	Arrhythmic Heartbeat Classification Using 2D Convolutional Neural Networks. Irbm, 2022, 43, 422-433.	3.7	29
285	A Wearable System with Embedded Conductive Textiles and an IMU for Unobtrusive Cardio-Respiratory Monitoring. Sensors, 2021, 21, 3018.	2.1	24
286	A comparative study and analysis of LSTM deep neural networks for heartbeats classification. Health and Technology, 2021, 11, 663-671.	2.1	10
287	Space-time filter for SSVEP brain-computer interface based on the minimum variance distortionless response. Medical and Biological Engineering and Computing, 2021, 59, 1133-1150.	1.6	6
288	CNN based Covid-aid: Covid 19 Detection using Chest X-ray. , 2021, , .		20
289	Reliability of machine learning to diagnose pediatric obstructive sleep apnea: Systematic review and metaâ€analysis. Pediatric Pulmonology, 2022, 57, 1931-1943.	1.0	22
290	Advanced EEG-based learning approaches to predict schizophrenia: Promises and pitfalls. Artificial Intelligence in Medicine, 2021, 114, 102039.	3.8	54

#	Article	IF	CITATIONS
291	Detection of new coronavirus disease from chest x-ray images using pre-trained convolutional neural networks. Journal of the Faculty of Engineering and Architecture of Gazi University, 2021, 36, 2095-2108.	0.3	4
292	Al inspired EEG-based spatial feature selection method using multivariate empirical mode decomposition for emotion classification. Multimedia Systems, 2022, 28, 1275-1288.	3.0	22
293	Epileptic Seizures Detection Using Deep Learning Techniques: A Review. International Journal of Environmental Research and Public Health, 2021, 18, 5780.	1.2	194
294	An Efficient Deep Learning System for Epileptic Seizure Prediction. , 2021, , .		5
295	Automatic recognition of preictal and interictal EEG signals using 1D-capsule networks. Computers and Electrical Engineering, 2021, 91, 107033.	3.0	13
296	A novel convolutional neural network method for subject-independent driver drowsiness detection based on single-channel data and EEG alpha spindles. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 1069-1078.	1.0	6
297	A review on deep learning in machining and tool monitoring: methods, opportunities, and challenges. International Journal of Advanced Manufacturing Technology, 2021, 115, 2683-2709.	1.5	113
298	A filter approach for feature selection in classification: application to automatic atrial fibrillation detection in electrocardiogram recordings. BMC Medical Informatics and Decision Making, 2021, 21, 130.	1.5	7
299	An integrated framework for <scp>COVID</scp> â€19 classification based on classical and quantum transfer learning from a chest radiograph. Concurrency Computation Practice and Experience, 2022, 34, e6434.	1.4	28
300	Automated detection of cyclic alternating pattern and classification of sleep stages using deep neural network. Applied Intelligence, 2022, 52, 2903-2917.	3.3	32
301	Concordance of expert clinicians' interpretations of the newborn's true physiological state. Pediatric Research, 2021, , .	1.1	1
302	Diagnosis-Steganography-Transmission: An Innovative Integrated Paradigm for ECG Healthcare. SN Computer Science, 2021, 2, 1.	2.3	6
303	A deep learning algorithm based on 1D CNN-LSTM for automatic sleep staging. Technology and Health Care, 2022, 30, 323-336.	0.5	10
304	Integrating Digital Technologies and Public Health to Fight Covid-19 Pandemic: Key Technologies, Applications, Challenges and Outlook of Digital Healthcare. International Journal of Environmental Research and Public Health, 2021, 18, 6053.	1.2	87
305	Ocular artifact elimination from electroencephalography signals: A systematic review. Biocybernetics and Biomedical Engineering, 2021, 41, 960-996.	3.3	29
306	GaborPDNet: Gabor Transformation and Deep Neural Network for Parkinson's Disease Detection Using EEG Signals. Electronics (Switzerland), 2021, 10, 1740.	1.8	47
307	A multi-type features fusion neural network for blood pressure prediction based on photoplethysmography. Biomedical Signal Processing and Control, 2021, 68, 102772.	3.5	39
308	Bio-signal based motion control system using deep learning models: a deep learning approach for motion classification using EEG and EMG signal fusion. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 991-1002.	3.3	9

#	Article	IF	CITATIONS
309	A Lightweight Multi-Scale Convolutional Neural Network for P300 Decoding: Analysis of Training Strategies and Uncovering of Network Decision. Frontiers in Human Neuroscience, 2021, 15, 655840.	1.0	14
310	SCNN: Scalogram-based convolutional neural network to detect obstructive sleep apnea using single-lead electrocardiogram signals. Computers in Biology and Medicine, 2021, 134, 104532.	3.9	41
311	A deep learning framework with multi-perspective fusion for interictal epileptiform discharges detection in scalp electroencephalogram. Journal of Neural Engineering, 2021, 18, 0460b3.	1.8	16
312	AFibNet: an implementation of atrial fibrillation detection with convolutional neural network. BMC Medical Informatics and Decision Making, 2021, 21, 216.	1.5	33
313	Improvement of Image Compression Performance by Deep Neural Networks., 2021,,.		0
314	Heart rate estimation from ballistocardiographic signals using deep learning. Physiological Measurement, 2021, 42, 075005.	1.2	4
315	Automated ASD detection using hybrid deep lightweight features extracted from EEG signals. Computers in Biology and Medicine, 2021, 134, 104548.	3.9	71
316	Emerging ExG-based NUI Inputs in Extended Realities: AÂBottom-upÂSurvey. ACM Transactions on Interactive Intelligent Systems, 2021, 11, 1-49.	2.6	8
317	Fusion of Higher Order Spectra and Texture Extraction Methods for Automated Stroke Severity Classification with MRI Images. International Journal of Environmental Research and Public Health, 2021, 18, 8059.	1.2	1
318	Evaluating deep learning EEG-based mental stress classification in adolescents with autism for breathing entrainment BCI. Brain Informatics, 2021, 8, 13.	1.8	25
319	Universal Physiological Representation Learning With Soft-Disentangled Rateless Autoencoders. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2928-2937.	3.9	9
320	Classification of Electrocardiogram of Congenital Heart Disease Patients by Neural Network Algorithms. Scientific Programming, 2021, 2021, 1-8.	0.5	0
321	A Proposal for a Data-Driven Approach to the Influence of Music on Heart Dynamics. Frontiers in Cardiovascular Medicine, 2021, 8, 699145.	1.1	0
323	A Convolutional Neural Network Architecture to Enhance Oximetry Ability to Diagnose Pediatric Obstructive Sleep Apnea. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2906-2916.	3.9	37
324	A Design of Anthropomorphic Hand based on Human Finger Anatomy. Advances in Science, Technology and Engineering Systems, 2021, 6, 431-438.	0.4	1
325	Fused CNN-LSTM deep learning emotion recognition model using electroencephalography signals. International Journal of Neuroscience, 2023, 133, 587-597.	0.8	23
326	Development and Validation of an Arterial Pressure-Based Cardiac Output Algorithm Using a Convolutional Neural Network: Retrospective Study Based on Prospective Registry Data. JMIR Medical Informatics, 2021, 9, e24762.	1.3	4
327	Obstructive sleep apnea event prediction using recurrence plots and convolutional neural networks (RP-CNNs) from polysomnographic signals. Biomedical Signal Processing and Control, 2021, 69, 102928.	3.5	14

#	Article	IF	CITATIONS
328	Hyperparameter Bayesian Optimisation applied to ConvNets for Motor Imagery tasks. , 2021, , .		2
329	Detection of COVID-19 from Chest X-ray Images Using Deep Convolutional Neural Networks. Sensors, 2021, 21, 5940.	2.1	36
330	Preventing dataset shift from breaking machine-learning biomarkers. GigaScience, 2021, 10, .	3.3	39
331	Fusion of convolutional neural networks based on Dempster–Shafer theory for automatic pneumonia detection from chest Xâ€ray images. International Journal of Imaging Systems and Technology, 2022, 32, 658-672.	2.7	34
333	Machine learning approaches applied in spinal pain research. Journal of Electromyography and Kinesiology, 2021, 61, 102599.	0.7	6
334	Deep learning based smart health monitoring for automated prediction of epileptic seizures using spectral analysis of scalp EEG. Physical and Engineering Sciences in Medicine, 2021, 44, 1161-1173.	1.3	11
335	A channel independent generalized seizure detection method for pediatric epileptic seizures. Computer Methods and Programs in Biomedicine, 2021, 209, 106335.	2.6	18
336	Randomly initialized convolutional neural network for the recognition of <scp>COVID</scp> â€19 using Xâ€ray images. International Journal of Imaging Systems and Technology, 2022, 32, 55-73.	2.7	37
337	Interpretable filter based convolutional neural network (IF-CNN) for glucose prediction and classification using PD-SS algorithm. Measurement: Journal of the International Measurement Confederation, 2021, 183, 109804.	2.5	79
338	Applying deep neural networks and inertial measurement unit in recognizing irregular walking differences in the real world. Applied Ergonomics, 2021, 96, 103414.	1.7	19
339	Automated classification of five arrhythmias and normal sinus rhythm based on RR interval signals. Expert Systems With Applications, 2021, 181, 115031.	4.4	20
340	Atrial fibrillation detection service validation tool. Software Impacts, 2021, 10, 100117.	0.8	O
341	IoHT-enabled gliomas disease management using fog Computing computing for sustainable societies. Sustainable Cities and Society, 2021, 74, 103215.	5.1	6
342	Evolutionary algorithm-based convolutional neural network for predicting heart diseases. Computers and Industrial Engineering, 2021, 161, 107651.	3.4	10
343	Multiple contaminant biosignal quality analysis for electrocardiography. Biomedical Signal Processing and Control, 2022, 71, 103127.	3.5	3
344	Affective State Recognition Using Thermal-Based Imaging: A Survey. Computer Systems Science and Engineering, 2021, 37, 47-62.	1.9	11
345	Detection of coronavirus disease (COVID-19) from X-ray images using deep convolutional neural networks. Natural and Engineering Sciences, 2021, 6, 60-74.	0.2	7
346	Speech Parameter and Deep Learning Based Approach for the Detection of Parkinson's Disease. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 507-517.	0.5	1

#	Article	IF	CITATIONS
347	A Selective Mitigation Technique of Soft Errors for DNN Models Used in Healthcare Applications: DenseNet201 Case Study. IEEE Access, 2021, 9, 65803-65823.	2.6	16
348	Geolocation-aware IoT and cloud-fog-based solutions for healthcare. , 2021, , 37-52.		2
349	EEGNet With Ensemble Learning to Improve the Cross-Session Classification of SSVEP Based BCI From Ear-EEG. IEEE Access, 2021, 9, 15295-15303.	2.6	28
350	An Inception-Based Architecture forÂHaemodialysis Time Series Classification. IFIP Advances in Information and Communication Technology, 2021, , 194-203.	0.5	0
351	Hybrid Decision Support to Monitor Atrial Fibrillation for Stroke Prevention. International Journal of Environmental Research and Public Health, 2021, 18, 813.	1.2	8
352	Parallel Statistical and Machine Learning Methods for Estimation of Physical Load. Lecture Notes in Computer Science, 2018, , 483-497.	1.0	4
353	A Psychologically Driven, User-Centered Approach to Character Modeling. Human-computer Interaction Series, 2020, , 39-51.	0.4	11
354	Deep Learning Architecture Based on the Combination of Convolutional and Recurrent Layers for ERP-Based Brain-Computer Interfaces. IFMBE Proceedings, 2020, , 1844-1852.	0.2	4
355	Intelligent, Secure Big Health Data Management Using Deep Learning and Blockchain Technology: An Overview. Studies in Big Data, 2020, , 187-209.	0.8	9
356	Applications of Deep Learning in Healthcare and Biomedicine. Studies in Big Data, 2020, , 57-77.	0.8	9
357	Fuzzy Deep Neural Network for Classification of Overlapped Data. Lecture Notes in Computer Science, 2019, , 633-643.	1.0	6
358	Classification of epileptic electroencephalogram signals using tunable-Q wavelet transform based filter-bank. Journal of Ambient Intelligence and Humanized Computing, 2024, 15, 877-891.	3.3	15
359	Machine Learning to Predict Cardiac Death Within 1 Hour After Terminal Extubation*. Pediatric Critical Care Medicine, 2021, 22, 161-171.	0.2	18
361	The usage of deep learning algorithm in medical diagnostic of breast cancer. Malaysian Journal of Fundamental and Applied Sciences, 2019, 15, 274-281.	0.4	3
362	Qualitative Activity Recognition using Machine and Deep Learning. , 2019, , .		1
363	Determining the Topic Evolution and Sentiment Polarity for Albinism in a Chinese Online Health Community: Machine Learning and Social Network Analysis. JMIR Medical Informatics, 2020, 8, e17813.	1.3	17
364	Performance Comparison of Deep Learning Approaches for Left Atrium Segmentation from LGE-MRI Data., 0,,.		1
365	A multiplex visibility graph motifâ€based convolutional neural network for characterizing sleep stages using EEG signals. Brain Science Advances, 2020, 6, 355-363.	0.3	7

#	ARTICLE	IF	Citations
366	Convolutional Neural Networks with Transfer Learning for Recognition of COVID-19: A Comparative Study of Different Approaches. Al, 2020, 1, 586-606.	2.1	20
367	Distracted and Drowsy Driving Modeling Using Deep Physiological Representations and Multitask Learning. Applied Sciences (Switzerland), 2021, 11, 88.	1.3	11
368	Analyzing Malaria Disease Using Effective Deep Learning Approach. Diagnostics, 2020, 10, 744.	1.3	30
369	Deep learning approaches for human activity recognition using wearable technology. Medicinski Podmladak, 2018, 69, 14-24.	0.2	5
370	A Deep Learning Approach to Diagnose Skin Cancer Using Image Processing. Transactions on Computational Science and Computational Intelligence, 2021, , 147-154.	0.3	2
371	An Effective Feature Generation and Selection Approach for Lymph Disease Recognition. CMES - Computer Modeling in Engineering and Sciences, 2021, 129, 567-594.	0.8	0
372	Improving EEG-based Alzheimer's Disease Identification with Generative Adversarial Learning. , 2021, , .		2
373	Automatic classification of EEG signals via deep learning. , 2021, , .		1
374	Development and validation of ECG rhythm classification on a multitude of data sources using Deep Learning. , 2021, , .		0
375	Study Progress of Important Agricultural Heritage Systems (IAHS): A Literature Analysis. Sustainability, 2021, 13, 10859.	1.6	13
376	Deep Learning-Based Optimal Smart Shoes Sensor Selection for Energy Expenditure and Heart Rate Estimation. Sensors, 2021, 21, 7058.	2.1	4
377	Towards development of IoT-ML driven healthcare systems: A survey. Journal of Network and Computer Applications, 2021, 196, 103244.	5.8	35
378	A Deep Learning Model to Intelligently Identify the Working Status of Screw Pumps for Oil Well Lifting. , 2021, , .		0
379	Big Data Analytics. Advances in Computer and Electrical Engineering Book Series, 2019, , 67-81.	0.2	2
381	Multimodal Approach for Epileptic Seizure Detection in Epilepsy Monitoring Units. IFMBE Proceedings, 2020, , 1093-1104.	0.2	0
382	Improving Reliability of Clinical Models Using Prediction Calibration. Lecture Notes in Computer Science, 2020, , 71-80.	1.0	8
383	Deep LSTM Recurrent Neural Network for Anxiety Classification from EEG in Adolescents with Autism. Lecture Notes in Computer Science, 2020, , 227-238.	1.0	7
385	Development of a method for early and differential diagnosis of Parkinson's disease and essential tremor based on analysis of wave train electrical activity of muscles. , 2020, , .		2

#	Article	IF	CITATIONS
387	Biopotential Signal Monitoring Systems in Rehabilitation: A Review. Sensors, 2021, 21, 7172.	2.1	33
388	Review of Electronic Word-of-Mouth Based on Bibliometrics. Lecture Notes in Computer Science, 2020, , 126-144.	1.0	0
389	Automatic Concurrent Arrhythmia Classification Using Deep Residual Neural Networks. , 0, , .		5
390	Application of Deep Learning for Quality Assessment of Atrial Fibrillation ECG Recordings., 0,,.		1
391	On the Application of Convolutional Neural Networks for 12-lead ECG Multi-label Classification using Datasets from Multiple Centers. , 0, , .		2
392	Challenges and Future of Wearable Technology in Human Motor-Skill Learning and Optimization. , 0, , .		1
393	An Effective Diagnostic Model for Personalized Healthcare Using Deep Learning Techniques. Advances in Medical Technologies and Clinical Practice Book Series, 2020, , 70-88.	0.3	9
394	Soft-Wearable Device for the Estimation of Shoulder Orientation and Gesture. Lecture Notes in Computer Science, 2020, , 371-379.	1.0	0
395	A SWOT Analysis of Human- and Machine Learning- Based Embryo Assessment. IEEE Access, 2020, 8, 227466-227481.	2.6	2
396	Deep Learning Network. Advances in Computer and Electrical Engineering Book Series, 2020, , 1-30.	0.2	4
398	Al-Enabled Algorithm for Automatic Classification of Sleep Disorders Based on Single-Lead Electrocardiogram. Diagnostics, 2021, 11, 2054.	1.3	15
399	Attention Networks for Multi-Task Signal Analysis. , 2020, 2020, 184-187.		3
400	Explaining Deep Classification of Time-Series Data with Learned Prototypes. CEUR Workshop Proceedings, 2019, 2429, 15-22.	2.3	4
401	Investigation into Recognizing Context Over Time using Physiological Signals. , 2021, , .		0
402	Deep learning in bioengineering and biofabrication: a powerful technology boosting translation from research to clinics. Journal of 3D Printing in Medicine, 0, , .	1.0	1
403	Neural Decoding of EEG Signals with Machine Learning: A Systematic Review. Brain Sciences, 2021, 11 , 1525.	1.1	68
404	Predictive accuracy of CNN for cortical oscillatory activity in an acute rat model of parkinsonism. Neural Networks, 2022, 146, 334-340.	3.3	2
405	Deep Learning Based a New Passenger Flow Prediction Model. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	CITATIONS
406	Emotion recognition using effective connectivity and pre-trained convolutional neural networks in EEG signals. Cognitive Neurodynamics, 2022, 16, 1087-1106.	2.3	16
407	Transfer learning techniques for medical image analysis: A review. Biocybernetics and Biomedical Engineering, 2022, 42, 79-107.	3.3	81
409	A Learning based Secure Anomaly Detection for Healthcare Applications. , 2020, , .		1
410	Classification Of X-ray COVID-19 Image Using Convolutional Neural Network. , 2020, , .		4
411	Deep Learning Detection of Corrupted Segments in Recordings from Wearable Devices to Improve Atrial Fibrillation Screening., 2020,,.		0
412	An Online Prediction and Trajectory Tracking Method for Human Activity Recognition. , 2020, , .		0
413	Signal Analysis and Anomaly Detection of IoT-Based Healthcare Framework. , 2020, , .		4
414	3DCNN: Three-Layers Deep Convolutional Neural Network Architecture for Breast Cancer Detection using Clinical Image Data. , 2020, , .		4
415	Remote Heart Rate Estimation Based on Convolutional Neural Network and Regional Adaptive Weighting. , 2021, , .		0
417	A One-Dimensional Siamese Few-Shot Learning Approach for ECG Classification under Limited Data. , 2021, 2021, 455-458.		7
418	sEMG based hand gesture recognition with deformable convolutional network. International Journal of Machine Learning and Cybernetics, 2022, 13, 1729-1738.	2.3	14
419	Improving Robotic Hand Prosthesis Control With Eye Tracking and Computer Vision: A Multimodal Approach Based on the Visuomotor Behavior of Grasping. Frontiers in Artificial Intelligence, 2021, 4, 744476.	2.0	10
420	Training calibration-based counterfactual explainers for deep learning models in medical image analysis. Scientific Reports, 2022, 12, 597.	1.6	8
421	Detection of Freezing of Gait Using Convolutional Neural Networks and Data From Lower Limb Motion Sensors. IEEE Transactions on Biomedical Engineering, 2022, 69, 2256-2267.	2.5	16
422	Effects of EEG-sleep irregularities and its behavioral aspects. , 2022, , 239-267.		0
424	FETCH: A Deep Learning-Based Fog Computing and IoT Integrated Environment for Healthcare Monitoring and Diagnosis. IEEE Access, 2022, 10, 12548-12563.	2.6	43
425	Arrhythmia classification based on improved monarch butterfly optimization algorithm. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 5100-5109.	2.7	7
426	Novel Imaging Approach for Mental Stress Detection Using EEG Signals. Advances in Intelligent Systems and Computing, 2022, , 25-36.	0.5	1

#	Article	IF	CITATIONS
427	Fusion of Bâ€mode and shear wave elastography ultrasound features for automated detection of axillary lymph node metastasis in breast carcinoma. Expert Systems, 2022, 39, .	2.9	1
428	Two-layer LSTM network-based prediction of epileptic seizures using EEG spectral features. Complex & Intelligent Systems, 2022, 8, 2405-2418.	4.0	38
429	Convergence Between IoT and AI for Smart Health and Predictive Medicine. Internet of Things, 2022, , 69-84.	1.3	5
432	Emotion Recognition in the Wild., 2022,,.		0
433	Addressing Ethical Issues of Affective Computing. , 2022, , .		0
434	Synthesizing Natural and Believable Emotional Expressions. , 2022, , .		0
436	Reinforcement Learning and Affective Computing. , 2022, , .		0
437	Emotion-aware Human–Robot Interaction and Social Robots. , 2022, , .		1
439	Applied Affective Computing in Built Environments., 2022,,.		0
441	Machine Learning Approaches for Applied Affective Computing. , 2022, , .		0
442	Multimodal Data Collection and Processing for Applied Affective Computing. , 2022, , .		0
443	Introduction to Applied Affective Computing. , 2022, , .		0
444	Future of Affective Computing and Applied Affective Computing., 2022, , .		0
445	Emotions as Studied in Psychology and Cognitive Science. , 2022, , .		0
447	Authors' Biographies & Index. , 2022, , .		0
448	An Artificial Intelligence-Enabled ECG Algorithm for the Prediction and Localization of Angiography-Proven Coronary Artery Disease. Biomedicines, 2022, 10, 394.	1.4	13
449	Resource Allocation and Task Scheduling in Fog Computing and Internet of Everything Environments: A Taxonomy, Review, and Future Directions. ACM Computing Surveys, 2022, 54, 1-38.	16.1	45
450	Design of Phononic Bandgap Metamaterials Based on Gaussian Mixture Beta Variational Autoencoder and Iterative Model Updating. Journal of Mechanical Design, Transactions of the ASME, 2022, 144, .	1.7	11

#	Article	IF	CITATIONS
451	A scientometric study on components of Soft Computing methods from 1999 to 2019 for top most populated countries from Asian Continent. Applied Nanoscience (Switzerland), 0 , 1 .	1.6	0
452	Recognition of emotional states using frequency effective connectivity maps through transfer learning approach from electroencephalogram signals. Biomedical Signal Processing and Control, 2022, 75, 103544.	3.5	17
453	A Fog Computing Architecture with Multi-Layer for Computing-Intensive IoT Applications. Applied Sciences (Switzerland), 2021, 11, 11585.	1.3	15
454	A review of automated sleep stage scoring. , 2021, , .		0
455	Deep learning for reliable detection of epileptogenic lesions. , 2022, , 163-175.		0
456	A Review on EEG based Epileptic Seizures Detection using Deep Learning Techniques. , 2022, , .		6
457	Deep learning approaches for the cardiovascular disease diagnosis using smartphone. , 2022, , 163-193.		0
458	Machine learning and deep learning algorithms in disease prediction. , 2022, , 123-152.		2
459	Research Landscape of Artificial Intelligence and e-Learning: A Bibliometric Research. Frontiers in Psychology, 2022, 13, 795039.	1.1	16
460	A Comprehensive Review: Computational Models for Obstructive Sleep Apnea Detection in Biomedical Applications. BioMed Research International, 2022, 2022, 1-21.	0.9	14
461	Recognition of the Mental Workloads of Pilots in the Cockpit Using EEG Signals. Applied Sciences (Switzerland), 2022, 12, 2298.	1.3	17
462	Prediction of epileptic seizures from spectral features of intracranial eeg recordings using deep learning approach. Multimedia Tools and Applications, 2022, 81, 28875-28898.	2.6	8
463	Theil Entropy as a Non-Lineal Analysis for Spectral Inequality of Physiological Oscillations. Entropy, 2022, 24, 370.	1.1	1
464	A review of intelligent medical imaging diagnosis for the COVID-19 infection. Intelligent Decision Technologies, 2022, , 1-18.	0.6	0
465	A Study on the Application of Computer-Aided Dual-Coding Theory in English Vocabulary Teaching. Scientific Programming, 2022, 2022, 1-10.	0.5	2
466	Applicability of Artificial Intelligence (AI) Methods to Construction Manufacturing: A Literature Review., 2022,,.		0
467	Semantic Segmentation of 12-Lead ECG Using 1D Residual U-Net with Squeeze-Excitation Blocks. Applied Sciences (Switzerland), 2022, 12, 3332.	1.3	4
468	Smart neurocare approach for detection of epileptic seizures using deep learning based temporal analysis of EEG patterns. Multimedia Tools and Applications, 2022, 81, 29555-29586.	2.6	25

#	Article	IF	CITATIONS
469	Improving chronic disease management for children with knowledge graphs and artificial intelligence. Expert Systems With Applications, 2022, 201, 117026.	4.4	6
470	Predicting Epileptic Seizures from EEG Spectral Band Features Using Convolutional Neural Network. Wireless Personal Communications, 2022, 125, 2667-2684.	1.8	7
471	Implementation of chemometrics, design of experiments, and neural network analysis for prior process knowledge assessment, failure modes and effect analysis, scaleâ€down model development, and process characterization for a chromatographic purification of ⟨scp⟩Teriparatide⟨ scp⟩. Biotechnology Progress, 2022, 38, e3252.	1.3	1
472	Polysomnographic identification of anxiety and depression using deep learning. Journal of Psychiatric Research, 2022, 150, 54-63.	1.5	4
473	Heart rate variability for medical decision support systems: A review. Computers in Biology and Medicine, 2022, 145, 105407.	3.9	30
474	Detection of cardiac arrhythmias from ECG signals using FBSE and Jaya optimized ensemble random subspace K-nearest neighbor algorithm. Biomedical Signal Processing and Control, 2022, 76, 103654.	3.5	13
475	Probabilistic deep learning model as a tool for supporting the fast simulation of a thermal–hydraulic code. Expert Systems With Applications, 2022, 200, 116966.	4.4	7
476	Classification of Gastric Precancerous Diseases using Hybrid CNN-SVM., 2021,,.		3
477	Autism Spectrum Disorder classification using EEG and 1D-CNN., 2021,,.		5
478	Medical Image Processing from Large Datasets Using Deep Learning. , 2021, , .		0
479	VREED., 2021, 5, 1-20.		19
480	ldentification of Barrett's esophagus in endoscopic images using deep learning. BMC Gastroenterology, 2021, 21, 479.	0.8	14
481	Real-Time EMG Signal Classification via Recurrent Neural Networks. , 2021, , .		5
482	Automated atrial fibrillation recognition in 12-lead electrocardiographic records: a signal to image and transfer learning approach: A case-control accuracy study. Precision and Future Medicine, 2021, 5, 184-189.	0.5	0
483	Current Status and Future Directions of Deep Learning Applications for Safety Management in Construction. Sustainability, 2021, 13, 13579.	1.6	11
484	A Review on Artificial Intelligence for Electrocardiogram Signal Analysis. Advances in Medical Technologies and Clinical Practice Book Series, 2022, , 38-72.	0.3	1
485	An EEG-based systematic explainable detection framework for probing and localizing abnormal patterns in Alzheimer's disease. Journal of Neural Engineering, 2022, 19, 036007.	1.8	2
486	Esophageal Virtual Disease Landscape Using Mechanics-Informed Machine Learning. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	CITATIONS
487	Graph Learning With Co-Teaching for EEG-Based Motor Imagery Recognition. IEEE Transactions on Cognitive and Developmental Systems, 2023, 15, 1722-1731.	2.6	1
488	Hybrid BiLSTM-HMM based event detection and classification system for food intake recognition. , 2022, , .		2
489	Reducing the Cognitive Load of Playing a Digital Tabletop Game with a Multimodal Interface. , 2022, , .		4
490	Machine Learning for Detection of Muscular Activity from Surface EMG Signals. Sensors, 2022, 22, 3393.	2.1	6
491	iHearken: Chewing sound signal analysis based food intake recognition system using Bi-LSTM softmax network. Computer Methods and Programs in Biomedicine, 2022, 221, 106843.	2.6	6
492	Normalized unitary synaptic signaling of the hippocampus and entorhinal cortex predicted by deep learning of experimental recordings. Communications Biology, 2022, 5, 418.	2.0	6
493	Application of Deep Learning and WT-SST in Localization of Epileptogenic Zone Using Epileptic EEG Signals. Applied Sciences (Switzerland), 2022, 12, 4879.	1.3	8
494	Medical deep learning—A systematic meta-review. Computer Methods and Programs in Biomedicine, 2022, 221, 106874.	2.6	76
495	Automated classification of cyclic alternating pattern sleep phases in healthy and sleep-disordered subjects using convolutional neural network. Computers in Biology and Medicine, 2022, 146, 105594.	3.9	16
496	An Accurate Multiple Sclerosis Detection Model Based on Exemplar Multiple Parameters Local Phase Quantization: ExMPLPQ. Applied Sciences (Switzerland), 2022, 12, 4920.	1.3	22
497	Contactless remote monitoring of sleep: evaluating the feasibility of an under-mattress sensor mat in a real-life deployment. Health Systems, 2023, 12, 264-280.	0.9	2
498	A deep learning approach for decoding visually imagined digits and letters using time–frequency–spatial representation of EEG signals. Expert Systems With Applications, 2022, 203, 117417.	4.4	4
499	Comprehensive survey of computational ECG analysis: Databases, methods and applications. Expert Systems With Applications, 2022, 203, 117206.	4.4	38
500	Convolutional Neural Network-Based Approach to Detect COVID-19 from Chest X-Ray Images. Lecture Notes in Networks and Systems, 2022, , 231-245.	0.5	13
501	Gram Matrix-Based Convolutional Neural Network for Biometric Identification Using Photoplethysmography Signal. Journal of Shanghai Jiaotong University (Science), 2022, 27, 463-472.	0.5	1
502	Transfer Learning of Motor Difficulty Classification in Physical Human–Robot Interaction Using Electromyography. Journal of Computing and Information Science in Engineering, 2022, 22, .	1.7	3
503	Deep Network Model and Regression Analysis using OLS Method for Predicting Lung Vital Capacity. , 0,		0
504	GCNS-MI: EEG Recognition of Depression Based on Graph Mutual Information Maximization. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	Citations
505	Automated classification of multi-class sleep stages classification using polysomnography signals: a nine-layer 1D-convolution neural network approach. Multimedia Tools and Applications, 2023, 82, 8049-8091.	2.6	10
506	uBrain., 2022, , .		4
507	Deepaware: A hybrid deep learning and context-aware heuristics-based model for atrial fibrillation detection. Computer Methods and Programs in Biomedicine, 2022, 221, 106899.	2.6	15
508	An exploratory study of transfer learning frameworks in the context of few available shots of neurophysiological signals. Computers and Electrical Engineering, 2022, 101, 108091.	3.0	2
509	Deep Learning in Healthcare: Applications, Challenges, and Opportunities. Studies in Computational Intelligence, 2022, , 27-44.	0.7	2
510	EEG-Based Epileptic Seizure Detection via Machine/Deep Learning Approaches: A Systematic Review. Computational Intelligence and Neuroscience, 2022, 2022, 1-20.	1.1	61
511	Healthsheet: Development of a Transparency Artifact for Health Datasets. , 2022, , .		13
512	Towards Secure and Intelligent Internet of Health Things: A Survey of Enabling Technologies and Applications. Electronics (Switzerland), 2022, 11, 1893.	1.8	26
513	A graph convolutional neural network for the automated detection of seizures in the neonatal EEG. Computer Methods and Programs in Biomedicine, 2022, 222, 106950.	2.6	17
514	Tell me something interesting: Clinical utility of machine learning prediction models in the ICU. Journal of Biomedical Informatics, 2022, 132, 104107.	2.5	2
515	Importance of Testing with Independent Subjects and Contexts for Machine-Learning Models to Monitor Construction Workers' Psychophysiological Responses. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	2.0	5
516	A Novel Method for Function Smoothness in Neural Networks. IEEE Access, 2022, 10, 75354-75364.	2.6	1
517	Analysis of depression in social media texts through the Patient Health Questionnaire-9 and natural language processing. Digital Health, 2022, 8, 205520762211142.	0.9	6
518	Diabetes Detection and Management through Photoplethysmographic and Electrocardiographic Signals Analysis: A Systematic Review. Sensors, 2022, 22, 4890.	2.1	10
519	Implementation of Efficient Teaching Scheme of Human Anatomy and Physiology Based on Multimedia Information Processing Technologies. Security and Communication Networks, 2022, 2022, 1-7.	1.0	1
520	Classification Of Ecg Signals Of Heart Beats Using Tf-Ts Lstm With Augmented Fuzzy Recurrence Eigenvalues. , 2022, , .		1
521	FWLICM-Deep Learning: Fuzzy Weighted Local Information C-Means Clustering-Based Lung Lobe Segmentation with Deep Learning for COVID-19 Detection. Journal of Digital Imaging, 2022, 35, 1463-1478.	1.6	2
522	A systematic review and Meta-data analysis on the applications of Deep Learning in Electrocardiogram. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 9677-9750.	3.3	9

#	Article	IF	CITATIONS
523	Application of artificial intelligence techniques for automated detection of myocardial infarction: a review. Physiological Measurement, 2022, 43, 08TR01.	1.2	10
524	A Hybrid Hand-Crafted and Deep Neural Spatio-Temporal EEG Features Clustering Framework for Precise Emotional Status Recognition. Sensors, 2022, 22, 5158.	2.1	5
525	A 2D convolutional neural network to detect sleep apnea in children using airflow and oximetry. Computers in Biology and Medicine, 2022, 147, 105784.	3.9	13
526	Similarity of expert clinicians' rank order of differential diagnoses in a newborn resuscitation context. Resuscitation Plus, 2022, 11, 100263.	0.6	O
527	Towards precision sleep medicine: Self-attention GAN as an innovative data augmentation technique for developing personalized automatic sleep scoring classification. Computers in Biology and Medicine, 2022, 148, 105828.	3.9	2
528	Classification of EEG Signals for Prediction of Epileptic Seizures. Applied Sciences (Switzerland), 2022, 12, 7251.	1.3	8
529	ST-based Deep Learning Analysis of COVID-19 Patients. International Journal of Biology and Biomedical Engineering, 2022, 16, 321-329.	0.1	0
530	Correcting rainfall forecasts of a numerical weather prediction model using generative adversarial networks. Journal of Supercomputing, 2023, 79, 1289-1317.	2.4	8
532	Residual one-dimensional convolutional neural network for neuromuscular disorder classification from needle electromyography signals with explainability. Computer Methods and Programs in Biomedicine, 2022, 226, 107079.	2.6	3
533	Application of Machine Learning in the Field of Intraoperative Neurophysiological Monitoring: A Narrative Review. Applied Sciences (Switzerland), 2022, 12, 7943.	1.3	9
534	A review of arrhythmia detection based on electrocardiogram with artificial intelligence. Expert Review of Medical Devices, 2022, 19, 549-560.	1.4	6
535	SEL-COVIDNET: An intelligent application for the diagnosis of COVID-19 from chest X-rays and CT-scans. Informatics in Medicine Unlocked, 2022, 32, 101059.	1.9	8
536	A photoplethysmography-based diagnostic support system for obstructive sleep apnea using deep learning approaches. Computers and Electrical Engineering, 2022, 102, 108279.	3.0	2
537	A novel approach for detection of dyslexia using convolutional neural network with EOG signals. Medical and Biological Engineering and Computing, 2022, 60, 3041-3055.	1.6	3
538	Physiological computing for occupational health and safety in construction: Review, challenges and implications for future research. Advanced Engineering Informatics, 2022, 54, 101729.	4.0	4
539	IEViT: An enhanced vision transformer architecture for chest X-ray image classification. Computer Methods and Programs in Biomedicine, 2022, 226, 107141.	2.6	16
540	Lead Separation and Combination: A Novel Unsupervised 12-Lead ECG Feature Learning Framework for Internet of Medical Things. IEEE Internet of Things Journal, 2022, 9, 23897-23914.	5 . 5	1
541	Deep Learning Approach to Cervical Cancer Classification. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	Citations
542	Attention Mechanisms forÂPhysiological Signal Deep Learning: Which Attention Should We Take?. Lecture Notes in Computer Science, 2022, , 613-622.	1.0	1
543	Identifying heart arrhythmias through multi-level algorithmic processing of ECG on edge devices. Procedia Computer Science, 2022, 203, 699-706.	1.2	5
544	Dynamic Hand Gesture Recognition forÂNumeral Handwritten viaÂA-Mode Ultrasound. Lecture Notes in Computer Science, 2022, , 614-625.	1.0	0
545	Prediction of Treatment Outcome in Major Depressive Disorder Using Ensemble of Hybrid Transfer Learning and Long Short-Term Memory Based on EEG Signal. IEEE Transactions on Cognitive and Developmental Systems, 2023, 15, 1279-1288.	2.6	2
546	A Multimodal Multilevel Converged Attention Network for Hand Gesture Recognition With Hybrid sEMG and A-Mode Ultrasound Sensing. IEEE Transactions on Cybernetics, 2023, 53, 7723-7734.	6.2	10
547	A Novel Mapping of ECG and PPG to Ensure the Safety of Health Monitoring Applications. IEEE Embedded Systems Letters, 2023, 15, 49-52.	1.3	5
548	Data mining with deep learning in biomedical data. , 2022, , 1-20.		0
549	Digital Transformation in Epilepsy Diagnosis Using Raw Images and Transfer Learning in Electroencephalograms. Sustainability, 2022, 14, 11420.	1.6	2
550	Global Research Trends of Artificial Intelligence on Histopathological Images: A 20-Year Bibliometric Analysis. International Journal of Environmental Research and Public Health, 2022, 19, 11597.	1.2	4
551	Environmental Benefits of Sleep Apnoea Detection in the Home Environment. Processes, 2022, 10, 1739.	1.3	2
552	Novel deep learning architectures for haemodialysis time series classification. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2022, 26, 91-99.	0.7	0
553	Automated Detection of Epiretinal Membranes in OCT Images Using Deep Learning. Ophthalmic Research, 2023, 66, 238-246.	1.0	5
554	Abnormal ECG detection based on an adversarial autoencoder. Frontiers in Physiology, 0, 13, .	1.3	4
555	Statistical, machine learning and deep learning forecasting methods: Comparisons and ways forward. Journal of the Operational Research Society, 2023, 74, 840-859.	2.1	17
556	A Parametric Lossy Compression Techniques for Biosignals: A Review. Wireless Personal Communications, 0, , .	1.8	1
557	Predicting pattern of coronavirus using X-ray and CT scan images. Network Modeling Analysis in Health Informatics and Bioinformatics, 2022, 11 , .	1.2	3
558	Deep transfer learning compared to subject-specific models for sEMG decoders. Journal of Neural Engineering, 2022, 19, 056039.	1.8	5
559	A review of automated sleep disorder detection. Computers in Biology and Medicine, 2022, 150, 106100.	3.9	21

#	Article	IF	Citations
560	Oximetry Indices in the Management of Sleep Apnea: From Overnight Minimum Saturation to the Novel Hypoxemia Measures. Advances in Experimental Medicine and Biology, 2022, , 219-239.	0.8	5
561	Deep-Learning Model Based on Convolutional Neural Networks to Classify Apnea–Hypopnea Events from the Oximetry Signal. Advances in Experimental Medicine and Biology, 2022, , 255-264.	0.8	1
562	CovidViT: a novel neural network with self-attention mechanism to detect Covid-19 through X-ray images. International Journal of Machine Learning and Cybernetics, 2023, 14, 973-987.	2.3	9
563	An Interpretive Adversarial Attack Method: Attacking Softmax Gradient Layer-Wise Relevance Propagation Based on Cosine Similarity Constraint and TS-Invariant. Neural Processing Letters, 0, , .	2.0	0
564	Virtual disease landscape using mechanics-informed machine learning: Application to esophageal disorders. Artificial Intelligence in Medicine, 2022, 134, 102435.	3.8	3
566	Ubiquitous and smart healthcare monitoring frameworks based on machine learning: A comprehensive review. Artificial Intelligence in Medicine, 2022, 134, 102431.	3.8	17
567	Improved Bat Algorithm with Deep Learning-Based Biomedical ECG Signal Classification Model. Computers, Materials and Continua, 2023, 74, 3151-3166.	1.5	0
568	Design and Development of Hybrid Optimization-Enabled Deep Learning Model for Myocardial Infarction. International Journal of Sociotechnology and Knowledge Development, 2022, 14, 1-27.	0.4	1
569	An IoT enabled secured clinical health care framework for diagnosis of heart diseases. Biomedical Signal Processing and Control, 2023, 80, 104368.	3.5	10
570	quEEGNet: Quantum AI for Biosignal Processing. , 2022, , .		1
571	Evaluating the difference in walk patterns among normal-weight and overweight/obese individuals in real-world surfaces using statistical analysis and deep learning methods with inertial measurement unit data. Physical and Engineering Sciences in Medicine, 2022, 45, 1289-1300.	1.3	2
572	Electronic tongue and electronic nose for food quality and safety. Food Research International, 2022, 162, 112214.	2.9	34
573	Detection of COVID-19 Cases from Chest X-Rays using Deep Learning Feature Extractor and Multilevel Voting Classifier. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2022, 30, 773-793.	0.9	4
574	A joint cross-dimensional contrastive learning framework for 12-lead ECGs and its heterogeneous deployment on SoC. Computers in Biology and Medicine, 2023, 152, 106390.	3.9	1
575	Stealth Attacks: A Natural and Robust Physical World Attack Against Object Detectors. , 2022, , .		0
576	Ultra-low Power Analog Recurrent Neural Network Design Approximation for Wireless Health Monitoring., 2022,,.		2
577	Convolution neural network for identification of obstructive sleep apnea., 2022,,.		1
578	Bibliometric analysis on Brain-computer interfaces in a 30-year period. Applied Intelligence, 2023, 53, 16205-16225.	3.3	2

#	ARTICLE	IF	CITATIONS
579	Computer-aided diagnosis of autism spectrum disorder from EEG signals using deep learning with FAWT and multiscale permutation entropy features. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2023, 237, 282-294.	1.0	4
580	Automated analysis of small intestinal lamina propria to distinguish normal, Celiac Disease, and Non-Celiac Duodenitis biopsy images. Computer Methods and Programs in Biomedicine, 2023, 230, 107320.	2.6	2
581	A deep learning platform to assess drug proarrhythmia risk. Cell Stem Cell, 2023, 30, 86-95.e4.	5.2	5
582	Identification of Heart Arrhythmias by Utilizing a Deep Learning Approach of the ECG Signals on Edge Devices. Computers, 2022, 11, 176.	2.1	1
583	Multimodal Hierarchical CNN Feature Fusion for Stress Detection. IEEE Access, 2023, 11, 6867-6878.	2.6	9
584	Automated detection of schizophrenia using deep learning: a review for the last decade. Physiological Measurement, 2023, 44, 03TR01.	1.2	9
585	Machine-Learning-Based Detection of Pressure-Induced Faults in Continuous Glucose Monitors. Industrial & Engineering Chemistry Research, 2023, 62, 2255-2262.	1.8	3
586	Deep learning based epileptic seizure detection with EEG data. International Journal of Systems Assurance Engineering and Management, 0, , .	1.5	5
587	Label decoupling strategy for 12-lead ECG classification. Knowledge-Based Systems, 2023, 263, 110298.	4.0	3
588	Cloud-based healthcare framework for real-time anomaly detection and classification of 1-D ECG signals. PLoS ONE, 2022, 17, e0279305.	1.1	2
589	Compact Convolutional Neural Network with Multi-Headed Attention Mechanism for Seizure Prediction. International Journal of Neural Systems, 2023, 33, .	3.2	11
591	Cardiovascular and autonomic dysfunction in long-COVID syndrome and the potential role of non-invasive therapeutic strategies on cardiovascular outcomes. Frontiers in Medicine, 0, 9, .	1.2	11
592	An Intelligent Health Care System in Fog Platform with Optimized Performance. Sustainability, 2023, 15, 1862.	1.6	5
593	Differentiation of Bolus Texture During Deglutition via Highâ€Density Surface Electromyography: A Pilot Study. Laryngoscope, 0, , .	1.1	0
594	Automatic diagnosis and localization of myocardial infarction using morphological features of ECG signal. Biomedical Signal Processing and Control, 2023, 83, 104671.	3 . 5	3
595	Artificial Intelligence in Patients with Congenital Heart Disease: Where Do We Stand?. EMJ Cardiology, 0, , 70-81.	0.0	1
596	Design and implementation of traffic police hand gesture recognition system based on surface electromyographic signals., 2022,,.		0
597	Nonexclusive Classification ofÂHousehold Appliances byÂFuzzy Deep Neural Networks. Communications in Computer and Information Science, 2022, , 404-418.	0.4	0

#	Article	IF	CITATIONS
598	A novel automated robust dual-channel EEG-based sleep scoring system using optimal half-band pair linear-phase biorthogonal wavelet filter bank. Applied Intelligence, 2023, 53, 18681-18699.	3.3	5
599	Global bibliometric analysis of conceptual metaphor research over the recent two decades. Frontiers in Psychology, 0, 14 , .	1.1	2
600	Malaria Disease Cell Classification With Highlighting Small Infected Regions. IEEE Access, 2023, 11, 15945-15953.	2.6	0
601	A survey of deep learning-based classification methods for steady-state visual evoked potentials. , 2023, 2, .		1
603	Classification of the Central Effects of Transcutaneous Electroacupuncture Stimulation (TEAS) at Different Frequencies: A Deep Learning Approach Using Wavelet Packet Decomposition with an Entropy Estimator. Applied Sciences (Switzerland), 2023, 13, 2703.	1.3	2
605	State-of-the-Art of Artificial Intelligence and Big Data Analytics Reviews in Five Different Domains: A Bibliometric Summary. Sustainability, 2023, 15, 4026.	1.6	21
606	Rapid monitoring of indoor air quality for efficient HVAC systems using fully convolutional network deep learning model. Building and Environment, 2023, 234, 110191.	3.0	14
607	Speech Emotion Recognition Using Attention Model. International Journal of Environmental Research and Public Health, 2023, 20, 5140.	1.2	6
608	Electromyography Monitoring Systems in Rehabilitation: A Review of Clinical Applications, Wearable Devices and Signal Acquisition Methodologies. Electronics (Switzerland), 2023, 12, 1520.	1.8	21
609	A Structured Analysis to study the Role of Machine Learning and Deep Learning in The Healthcare Sector with Big Data Analytics. Archives of Computational Methods in Engineering, 2023, 30, 3673-3701.	6.0	9
610	Sleeping Abnormalities Detection using Deep Learning Techniques., 2023,,.		2
611	DeepMist: Toward Deep Learning Assisted Mist Computing Framework for Managing Healthcare Big Data. IEEE Access, 2023, 11, 42485-42496.	2.6	6
612	CNN for a Regression Machine Learning Algorithm for Predicting Cognitive Impairment Using qEEG. Neuropsychiatric Disease and Treatment, 0, Volume 19, 851-863.	1.0	1
613	ShapeWordNet: An Interpretable Shapelet Neural Network forÂPhysiological Signal Classification. Lecture Notes in Computer Science, 2023, , 353-369.	1.0	0
614	Automatic cardiac arrhythmias classification using CNN and attentionâ€based RNN network. Healthcare Technology Letters, 2023, 10, 53-61.	1.9	4
616	Emotions Classification Using EEG inÂHealth Care. Lecture Notes in Networks and Systems, 2023, , 37-49.	0.5	0
625	Data Management Strategy forÂAI Deployment inÂEthiopian Healthcare System. Communications in Computer and Information Science, 2023, , 50-66.	0.4	0
626	Future of Medicine in Cognitive Technologies and Automatic Detection via Computational Techniques. EAI/Springer Innovations in Communication and Computing, 2023, , 373-393.	0.9	1

#	Article	IF	CITATIONS
630	Sleep-Disordered Breathing: Diagnosis. , 2023, , 69-95.		0
637	Comparative Study of Detection of ADHD using EEG Signals. , 2023, , .		0
638	Forearm Movements Classification Research to Increase Subjects Independence., 2023,,.		0
639	A survey on detection of COVID 19 with the assist of machine learning (ML), deep learning (DL) and artificial intelligence (AI) approaches. AIP Conference Proceedings, 2023, , .	0.3	0
648	Parasitical Disease Prediction Model – a Deep Learning Based Approach. , 2023, , .		0
651	Software-Based Mass Customization of Artificial Neural Networks and its Benefits. , 2022, , .		0
655	Machine learning and sensor-based approach for defect detection in MEX additive manufacturing process- A Review. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2023, 45, .	0.8	0
662	Novel Method for Detection of Stress in Employees using Hybrid Deep learning Models. , 2023, , .		1
665	Performance Comparison of Audio Tampering Detection Using Different Datasets., 2023,,.		1
668	Impact of Artificial Intelligence on Virtual Learning Ecosystem. , 2023, , .		0
671	Smart Healthcare System Management Using IoT and Machine Learning Techniques. Lecture Notes in Networks and Systems, 2024, , 315-326.	0.5	0
684	Naturalistic Emotion Recognition Using EEG andÂEye Movements. Lecture Notes in Computer Science, 2024, , 265-276.	1.0	0
685	Comparative Research on Non-intrusive Load Monitoring. , 2023, , .		0
687	Editorial: Unraveling sleep and its disorders using novel analytical approaches, volume II. Frontiers in Neuroscience, 0, 17 , .	1.4	0
688	ECG Based Arrhythmia Detection Using CNN., 2023,,.		0
691	A Systematic Review on ECG and EMG Biomedical Signal Using Deep-Learning Approaches. , 2023, , 145-161.		0
693	An efficient deep learning approach to identify dynamics in in vitro neural networks. , 2023, , .		0
700	Medical Image Segmentation Using Dual Branch Networks with Embedded Attention Mechanism. , 2023, , .		0

#	Article	IF	CITATIONS
702	Machine Learning and Deep Learning Algorithms for Alzheimer Disease Detection and its Implication in Society 5.0., 2024, , 285-305.		0
705	Embracing the promise of artificial intelligence to improve patient care in movement disorders. , 2024, , 11-23.		o
708	Bi-directional LSTM for Monitoring Biceps Brachii Muscle Activity of Healthy Subjects Using sEMG Signals. Lecture Notes in Networks and Systems, 2024, , 487-499.	0.5	0
709	A Comparative Study on Various Detection Techniques to Detect Mental Health Disorders in Children. , 2023, , .		0
715	An Ample Review of Various Deep Learning Skills for Identifying the Stages of Sleep. Communications in Computer and Information Science, 2024, , 47-65.	0.4	0