

Deep learning-based electroencephalography analysis: a

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Exploiting Graphoelements and Convolutional Neural Networks with Long Short Term Memory for Classification of the Human Electroencephalogram. Scientific Reports, 2019, 9, 11383.	1.6	18
2	Unfolding the Effects of Acute Cardiovascular Exercise on Neural Correlates of Motor Learning Using Convolutional Neural Networks. Frontiers in Neuroscience, 2019, 13, 1215.	1.4	3
3	A New Approach for Motor Imagery Classification Based on Sorted Blind Source Separation, Continuous Wavelet Transform, and Convolutional Neural Network. Sensors, 2019, 19, 4541.	2.1	57
4	Decoding P300 Variability Using Convolutional Neural Networks. Frontiers in Human Neuroscience, 2019, 13, 201.	1.0	16
5	Portal: A user-friendly environment for BCI models training. , 2019, , .		0
6	Assessing the time synchronisation of EEG systems. , 2019, , .		3
7	Fast Automatic Artifact Annotator for EEG Signals Using Deep Learning. , 2019, , .		9
8	Benchmarking Deep Learning for Time Series: Challenges and Directions. , 2019, , .		6
9	On Activity Identification Pipelines for a Low-Accuracy EEG Device. , 2019, , .		4
10	Decoding Movement From Electrocorticographic Activity: A Review. Frontiers in Neuroinformatics, 2019, 13, 74.	1.3	61
11	Neurophysiological Correlates of Concussion: Deep Learning for Clinical Assessment. Scientific Reports, 2019, 9, 17341.	1.6	16
12	Classification of Drowsiness Levels Based on a Deep Spatio-Temporal Convolutional Bidirectional LSTM Network Using Electroencephalography Signals. Brain Sciences, 2019, 9, 348.	1.1	44
13	Data augmentation for self-paced motor imagery classification with C-LSTM. Journal of Neural Engineering, 2020, 17, 016041.	1.8	55
14	Detection of mesial temporal lobe epileptiform discharges on intracranial electrodes using deep learning. Clinical Neurophysiology, 2020, 131, 133-141.	0.7	44
15	Big data, machine learning and artificial intelligence: a neurologist's guide. Practical Neurology, 2020, , practneurol-2020-002688.	0.5	14
16	A CNN-based personalized system for attention detection in wayfinding tasks. Advanced Engineering Informatics, 2020, 46, 101180.	4.0	7
17	A Multi-Scale Activity Transition Network for Data Translation in EEG Signals Decoding. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 1699-1709.	1.9	11
18	Encoding Rich Frequencies for Classification of Stroke Patients EEG Signals. IEEE Access, 2020, 8, 135811-135820.	2.6	13

#	ARTICLE	IF	CITATIONS
19	Continuous EEG Decoding of Pilots'™ Mental States Using Multiple Feature Block-Based Convolutional Neural Network. IEEE Access, 2020, 8, 121929-121941.	2.6	45
20	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
21	Hybrid Human-Machine Interface for Gait Decoding Through Bayesian Fusion of EEG and EMG Classifiers. Frontiers in Neurorobotics, 2020, 14, 582728.	1.6	36
22	Grand Challenges in Neurotechnology and System Neuroergonomics. Frontiers in Neuroergonomics, 2020, 1, .	0.6	21
23	Reducing Response Time in Motor Imagery Using A Headband and Deep Learning. Sensors, 2020, 20, 6730.	2.1	13
24	Scalp electroencephalograms over ipsilateral sensorimotor cortex reflect contraction patterns of unilateral finger muscles. NeuroImage, 2020, 222, 117249.	2.1	9
25	Machine Learning Applications in the Neuro ICU: A Solution to Big Data Mayhem?. Frontiers in Neurology, 2020, 11, 554633.	1.1	17
26	Brain-Machine Interfaces: A Tale of Two Learners. IEEE Systems, Man, and Cybernetics Magazine, 2020, 6, 12-19.	1.2	45
27	Neonatal Seizures Detection using Stationary Wavelet Transform and Deep Neural Networks: Preliminary Results. , 2020, , .		13
28	Deep Learning Based Inter-subject Continuous Decoding of Motor Imagery for Practical Brain-Computer Interfaces. Frontiers in Neuroscience, 2020, 14, 918.	1.4	27
29	Inter-subject transfer learning for EEG-based mental fatigue recognition. Advanced Engineering Informatics, 2020, 46, 101157.	4.0	49
30	Empirical Evaluation on the Impact of Class Overlap for EEG-Based Early Epileptic Seizure Detection. IEEE Access, 2020, 8, 180328-180340.	2.6	3
31	Review of Methods for EEG Signal Classification and Development of New Fuzzy Classification-Based Approach. IEEE Access, 2020, 8, 189720-189734.	2.6	28
32	Sequential Attention-based Detection of Semantic Incongruities from EEG While Listening to Speech. , 2020, 2020, 268-271.		3
33	Collective almost synchronization-based model to extract and predict features of EEG signals. Scientific Reports, 2020, 10, 16342.	1.6	13
34	Generalized Prediction of Unconsciousness during Propofol Anesthesia using 3D Convolutional Neural Networks. , 2020, 2020, 134-137.		2
35	Decoding Visual Motions from EEG Using Attention-Based RNN. Applied Sciences (Switzerland), 2020, 10, 5662.	1.3	9
36	Regularization of Deep Neural Networks for EEG Seizure Detection to Mitigate Overfitting. , 2020, 2020, 664-673.		2

#	ARTICLE	IF	CITATIONS
37	Deep learning and feature based medication classifications from EEG in a large clinical data set. Scientific Reports, 2020, 10, 14206.	1.6	13
38	Evaluation of Hyperparameter Optimization in Machine and Deep Learning Methods for Decoding Imagined Speech EEG. Sensors, 2020, 20, 4629.	2.1	48
39	Robust Single-Trial EEG-Based Authentication Achieved with a 2-Stage Classifier. Biosensors, 2020, 10, 124.	2.3	8
40	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
41	EEG-based Neglect Detection for Stroke Patients. , 2020, 2020, 264-267.		5
42	Data Augmentation for Motor Imagery Signal Classification Based on a Hybrid Neural Network. Sensors, 2020, 20, 4485.	2.1	61
43	A CNN-LSTM Deep Learning Classifier for Motor Imagery EEG Detection Using a Low-invasive and Low-Cost BCI Headband. , 2020, , .		25
44	A Novel Deep Learning Scheme for Motor Imagery EEG Decoding Based on Spatial Representation Fusion. IEEE Access, 2020, 8, 202100-202110.	2.6	13
45	Biomarkers for Prediction of Schizophrenia: Insights From Resting-State EEG Microstates. IEEE Access, 2020, 8, 213078-213093.	2.6	20
46	The Perils and Pitfalls of Block Design for EEG Classification Experiments. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	9.7	46
47	Machine Learning Approaches for Detecting Parkinsonâ€™s Disease from EEG Analysis: A Systematic Review. Applied Sciences (Switzerland), 2020, 10, 8662.	1.3	32
48	Developing a Motor Imagery-Based Real-Time Asynchronous Hybrid BCI Controller for a Lower-Limb Exoskeleton. Sensors, 2020, 20, 7309.	2.1	42
49	Towards a user-friendly sleep staging system for polysomnography part I: Automatic classification based on medical knowledge. Informatics in Medicine Unlocked, 2020, 21, 100454.	1.9	5
50	Lightweight Building of an Electroencephalogram-Based Emotion Detection System. Brain Sciences, 2020, 10, 781.	1.1	14
51	Predictive regression modeling with MEG/EEG: from source power to signals and cognitive states. NeuroImage, 2020, 222, 116893.	2.1	56
52	A Convolutional Neural Network Model for Decoding EEG signals in a Hand-Squeeze Task1. , 2020, , .		0
53	OCRNN: An orthogonal constrained recurrent neural network for sleep analysis based on EEG data. Ad Hoc Networks, 2020, 104, 102178.	3.4	8
54	A stacked sparse auto-encoder and back propagation network model for sensory event detection via a flexible ECoG. Cognitive Neurodynamics, 2020, 14, 591-607.	2.3	3

#	ARTICLE	IF	CITATIONS
55	A wavelet-based algorithm for automated analysis of external tocography: How does it compare to human interpretation?. Computers in Biology and Medicine, 2020, 122, 103814.	3.9	3
56	A multimodal and signals fusion approach for assessing the impact of stressful events on Air Traffic Controllers. Scientific Reports, 2020, 10, 8600.	1.6	23
57	Prediction of Visual Memorability with EEG Signals: A Comparative Study. Sensors, 2020, 20, 2694.	2.1	5
58	Interpretable and lightweight convolutional neural network for EEG decoding: Application to movement execution and imagination. Neural Networks, 2020, 129, 55-74.	3.3	70
59	A Brute-Force CNN Model Selection for Accurate Classification of Sensorimotor Rhythms in BCIs. IEEE Access, 2020, 8, 101014-101023.	2.6	14
60	A novel deep LSTM network for artifacts detection in microelectrode recordings. Biocybernetics and Biomedical Engineering, 2020, 40, 1052-1063.	3.3	18
61	Machine-learning-based diagnostics of EEG pathology. NeuroImage, 2020, 220, 117021.	2.1	119
62	Classification of Vowels from Imagined Speech with Convolutional Neural Networks. Computers, 2020, 9, 46.	2.1	27
63	Biomarkers and neuromodulation techniques in substance use disorders. Bioelectronic Medicine, 2020, 6, 4.	1.0	19
64	Deep Learning for EEG-Based Preference Classification in Neuromarketing. Applied Sciences (Switzerland), 2020, 10, 1525.	1.3	102
65	EEG-Based Emotion Recognition Using Logistic Regression with Gaussian Kernel and Laplacian Prior and Investigation of Critical Frequency Bands. Applied Sciences (Switzerland), 2020, 10, 1619.	1.3	40
66	Recognition of human emotions based on user context and brain signals applied to electrical power systems operators evaluation. Journal of Intelligent and Fuzzy Systems, 2020, 39, 987-1003.	0.8	1
67	Spatio-Temporal Representation of an Electroencephalogram for Emotion Recognition Using a Three-Dimensional Convolutional Neural Network. Sensors, 2020, 20, 3491.	2.1	40
68	The Effectiveness Assessment of Massage Therapy Using Entropy-Based EEG Features Among Lumbar Disc Herniation Patients Comparing With Healthy Controls. IEEE Access, 2020, 8, 7758-7775.	2.6	8
69	Comparing user-dependent and user-independent training of CNN for SSVEP BCI. Journal of Neural Engineering, 2020, 17, 026028.	1.8	76
70	Automated multi-model deep neural network for sleep stage scoring with unfiltered clinical data. Sleep and Breathing, 2020, 24, 581-590.	0.9	40
71	Learning Data Representation and Emotion Assessment from Physiological Data. , 2020, , .		1
72	Development of a Deep Learning-Based Brain-Computer Interface for Visual Imagery Recognition. , 2020, , .		6

#	ARTICLE	IF	CITATIONS
73	SGM: a novel time-frequency algorithm based on unsupervised learning improves high-frequency oscillation detection in epilepsy. <i>Journal of Neural Engineering</i> , 2020, 17, 026032.	1.8	14
74	EEG Theta Power Activity Reflects Workload among Army Combat Drivers: An Experimental Study. <i>Brain Sciences</i> , 2020, 10, 199.	1.1	32
75	Deep Learning Convolutional Neural Networks Discriminate Adult ADHD From Healthy Individuals on the Basis of Event-Related Spectral EEG. <i>Frontiers in Neuroscience</i> , 2020, 14, 251.	1.4	77
76	Decoding Imagined and Spoken Phrases From Non-invasive Neural (MEG) Signals. <i>Frontiers in Neuroscience</i> , 2020, 14, 290.	1.4	66
77	Beyond K-complex binary scoring during sleep: probabilistic classification using deep learning. <i>Sleep</i> , 2020, 43, .	0.6	15
78	Effect of hand grip actions on object recognition process: a machine learning-based approach for improved motor rehabilitation. <i>Neural Computing and Applications</i> , 2021, 33, 2339-2350.	3.2	6
79	Decoding kinetic features of hand motor preparation from single-trial EEG using convolutional neural networks. <i>European Journal of Neuroscience</i> , 2021, 53, 556-570.	1.2	5
80	Major depressive disorder diagnosis based on effective connectivity in EEG signals: a convolutional neural network and long short-term memory approach. <i>Cognitive Neurodynamics</i> , 2021, 15, 239-252.	2.3	89
81	Machine Learning for Predicting Epileptic Seizures Using EEG Signals: A Review. <i>IEEE Reviews in Biomedical Engineering</i> , 2021, 14, 139-155.	13.1	148
82	A survey on video-based Human Action Recognition: recent updates, datasets, challenges, and applications. <i>Artificial Intelligence Review</i> , 2021, 54, 2259-2322.	9.7	174
83	Recognition of Consumer Preference by Analysis and Classification EEG Signals. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 604639.	1.0	29
84	A few filters are enough: Convolutional neural network for P300 detection. <i>Neurocomputing</i> , 2021, 425, 37-52.	3.5	17
85	EEG Motor Imagery Classification With Sparse Spectrotemporal Decomposition and Deep Learning. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021, 18, 541-551.	3.4	42
86	Towards More Accurate Automatic Sleep Staging via Deep Transfer Learning. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 1787-1798.	2.5	72
87	Deep Learning for ECG Analysis: Benchmarks and Insights from PTB-XL. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 1519-1528.	3.9	144
88	Modern approaches of signal processing for bidirectional neural interfaces. , 2021, , 631-659.		0
89	Fast Automatic Artifact Annotator for EEG Signals Using Deep Learning. , 2021, , 195-221.		1
90	PhyDAA: Physiological Dataset Assessing Attention. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2022, 32, 2612-2623.	5.6	9

#	ARTICLE	IF	CITATIONS
91	Hybrid Deep Learning (hDL)-Based Brain-Computer Interface (BCI) Systems: A Systematic Review. <i>Brain Sciences</i> , 2021, 11, 75.	1.1	54
92	Cognitive Workload Recognition Using EEG Signals and Machine Learning: A Review. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2022, 14, 799-818.	2.6	42
93	EEG-Based Emotion Recognition – Evaluation Methodology Revisited. <i>Lecture Notes in Computer Science</i> , 2021, , 525-539.	1.0	1
94	Consumer Emotional State Evaluation Using EEG Based Emotion Recognition Using Deep Learning Approach. <i>Communications in Computer and Information Science</i> , 2021, , 113-127.	0.4	0
95	Upper Airway Segmentation Based on the Attention Mechanism of Weak Feature Regions. <i>IEEE Access</i> , 2021, 9, 95372-95381.	2.6	3
96	Shallow Convolutional Network Excel for Classifying Motor Imagery EEG in BCI Applications. <i>IEEE Access</i> , 2021, 9, 98275-98286.	2.6	25
97	Boosting Generalization in Bio-signal Classification by Learning the Phase-Amplitude Coupling. <i>Lecture Notes in Computer Science</i> , 2021, , 72-85.	1.0	3
98	A practical method for determining automated EEG interpretation software performance on continuous Video-EEG monitoring data. <i>Informatics in Medicine Unlocked</i> , 2021, 23, 100548.	1.9	1
99	Deep Learning Classification Methods for Brain-Computer Interface: An Overview. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 117-124.	0.5	0
100	Can Emotion Be Transferred? – A Review on Transfer Learning for EEG-Based Emotion Recognition. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2022, 14, 833-846.	2.6	35
101	Geometric Deep Learning for Subject Independent Epileptic Seizure Prediction Using Scalp EEG Signals. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 527-538.	3.9	39
102	A Systematic Deep Learning Model Selection for P300-Based Brain-Computer Interfaces. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 2744-2756.	5.9	24
103	CNN-Based Prognosis of BCI Rehabilitation Using EEG From First Session BCI Training. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 1936-1943.	2.7	20
105	Learning with self-supervision on EEG data. , 2021, , .		3
106	4-Class MI-EEG Signal Generation and Recognition with CVAE-GAN. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1798.	1.3	8
107	NeuroKit2: A Python toolbox for neurophysiological signal processing. <i>Behavior Research Methods</i> , 2021, 53, 1689-1696.	2.3	369
108	Predicting the Transition from Short-term to Long-term Memory based on Deep Neural Network. , 2021, , .		1
109	Universal neurophysiological interpretation of EEG brain-computer interfaces. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
110	Quantifying Signal Quality From Unimodal and Multimodal Sources: Application to EEG With Ocular and Motion Artifacts. <i>Frontiers in Neuroscience</i> , 2021, 15, 566004.	1.4	2
111	A Deep Learning Algorithm for Classifying Grasp Motions using Multi-session EEG Recordings. , 2021, , .		2
112	Automated classification system for drowsiness detection using convolutional neural network and electroencephalogram. <i>IET Intelligent Transport Systems</i> , 2021, 15, 514-524.	1.7	22
113	Using convolutional neural networks to decode EEG-based functional brain network with different severity of acrophobia. <i>Journal of Neural Engineering</i> , 2021, 18, 016007.	1.8	4
114	A survey on deep learning-based non-invasive brain signals: recent advances and new frontiers. <i>Journal of Neural Engineering</i> , 2021, 18, 031002.	1.8	137
116	Generalized neural decoders for transfer learning across participants and recording modalities. <i>Journal of Neural Engineering</i> , 2021, 18, 026014.	1.8	24
117	Decoding and interpreting cortical signals with a compact convolutional neural network. <i>Journal of Neural Engineering</i> , 2021, 18, 026019.	1.8	12
118	Study on the Influence of Tunnel Environmental Noise on Driving Fatigue. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 706, 012015.	0.2	1
119	Diagnosis and prognosis of mental disorders by means of EEG and deep learning: a systematic mapping study. <i>Artificial Intelligence Review</i> , 2022, 55, 1209-1251.	9.7	26
120	Data Augmentation: Using Channel-Level Recombination to Improve Classification Performance for Motor Imagery EEG. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 645952.	1.0	37
121	Convolutional Neural Network for Drowsiness Detection Using EEG Signals. <i>Sensors</i> , 2021, 21, 1734.	2.1	63
122	Driver sleepiness detection with deep neural networks using electrophysiological data. <i>Physiological Measurement</i> , 2021, 42, 034001.	1.2	8
123	Optimizing Residual Networks and VGG for Classification of EEG Signals: Identifying Ideal Channels for Emotion Recognition. <i>Journal of Healthcare Engineering</i> , 2021, 2021, 1-14.	1.1	22
124	Learning Subject-Generalized Topographical EEG Embeddings Using Deep Variational Autoencoders and Domain-Adversarial Regularization. <i>Sensors</i> , 2021, 21, 1792.	2.1	7
125	Uncovering the structure of clinical EEG signals with self-supervised learning. <i>Journal of Neural Engineering</i> , 2021, 18, 046020.	1.8	86
126	A novel explainable machine learning approach for EEG-based brain-computer interface systems. <i>Neural Computing and Applications</i> , 2022, 34, 11347-11360.	3.2	43
127	Recognition of pulmonary diseases from lung sounds using convolutional neural networks and long short-term memory. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2022, 13, 4759-4771.	3.3	52
128	A compact and interpretable convolutional neural network for cross-subject driver drowsiness detection from single-channel EEG. <i>Methods</i> , 2022, 202, 173-184.	1.9	46

#	ARTICLE	IF	CITATIONS
129	Edge deep learning for neural implants: a case study of seizure detection and prediction. Journal of Neural Engineering, 2021, 18, 046034.	1.8	28
130	Deep Learning for Patient-Independent Epileptic Seizure Prediction Using Scalp EEG Signals. IEEE Sensors Journal, 2021, 21, 9377-9388.	2.4	68
131	Improving SSVEP Identification Accuracy via Generalized Canonical Correlation Analysis. , 2021, , .		3
132	Virtual EEG-electrodes: Convolutional neural networks as a method for upsampling or restoring channels. Journal of Neuroscience Methods, 2021, 355, 109126.	1.3	10
133	The Effects of Individual Differences, Non-Stationarity, and the Importance of Data Partitioning Decisions for Training and Testing of EEG Cross-Participant Models. Sensors, 2021, 21, 3225.	2.1	17
134	Using Deep Learning to Classify Saccade Direction from Brain Activity. , 2021, , .		1
135	Subject- and task-independent neural correlates and prediction of decision confidence in perceptual decision making. Journal of Neural Engineering, 2021, 18, 046055.	1.8	7
136	A Survey on Deep Learning-Based Short/Zero-Calibration Approaches for EEG-Based Brain-Computer Interfaces. Frontiers in Human Neuroscience, 2021, 15, 643386.	1.0	19
137	Deep learning applied to electroencephalogram data in mental disorders: A systematic review. Biological Psychology, 2021, 162, 108117.	1.1	32
138	A CNN identified by reinforcement learning-based optimization framework for EEG-based state evaluation. Journal of Neural Engineering, 2021, 18, 046059.	1.8	15
139	Multi-Criteria Evaluation of Publication Impacts: Deep Learning in Autonomous Vehicles. , 2021, , .		0
140	Automated Classification of Mental Arithmetic Tasks Using Recurrent Neural Network and Entropy Features Obtained from Multi-Channel EEG Signals. Electronics (Switzerland), 2021, 10, 1079.	1.8	27
141	A Complex-Valued Oscillatory Neural Network for Storage and Retrieval of Multidimensional Aperiodic Signals. Frontiers in Computational Neuroscience, 2021, 15, 551111.	1.2	6
142	Building an Open Source Classifier for the Neonatal EEG Background: A Systematic Feature-Based Approach From Expert Scoring to Clinical Visualization. Frontiers in Human Neuroscience, 2021, 15, 675154.	1.0	12
143	Deep convolutional neural network for the automated detection of Subthalamic nucleus using MER signals. Journal of Neuroscience Methods, 2021, 356, 109145.	1.3	2
144	Extracting Interpretable EEG Features from a Deep Learning Model to Assess the Quality of Human-Robot Co-manipulation. , 2021, , .		1
145	A Deep Learning Strategy for Automatic Sleep Staging Based on Two-Channel EEG Headband Data. Sensors, 2021, 21, 3316.	2.1	17
146	Electroencephalogram (EEG) Based Imagined Speech Decoding and Recognition. Journal of Applied Materials and Technology, 2021, 2, 74-84.	1.4	5

#	ARTICLE	IF	CITATIONS
147	Automated scoring of pre-REM sleep in mice with deep learning. <i>Scientific Reports</i> , 2021, 11, 12245.	1.6	9
148	Physical principles of brain-computer interfaces and their applications for rehabilitation, robotics and control of human brain states. <i>Physics Reports</i> , 2021, 918, 1-133.	10.3	88
149	BENDR: Using Transformers and a Contrastive Self-Supervised Learning Task to Learn From Massive Amounts of EEG Data. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 653659.	1.0	68
150	ReType: Your Breath Tells Your Mind!. <i>IEEE Internet of Things Journal</i> , 2021, 8, 9436-9449.	5.5	3
151	A High Accuracy Electrographic Seizure Classifier Trained Using Semi-Supervised Labeling Applied to a Large Spectrogram Dataset. <i>Frontiers in Neuroscience</i> , 2021, 15, 667373.	1.4	6
152	Automated EEG pathology detection based on different convolutional neural network models: Deep learning approach. <i>Computers in Biology and Medicine</i> , 2021, 133, 104434.	3.9	18
153	Topography Based Classification for Motor Imagery BCI Using Transfer Learning. , 2021, , .		1
154	GAN-Based Data Augmentation For Improving The Classification Of EEG Signals. , 2021, , .		12
155	Epileptic Seizure Detection on an Ultra-Low-Power Embedded RISC-V Processor Using a Convolutional Neural Network. <i>Biosensors</i> , 2021, 11, 203.	2.3	19
156	EEG signal analysis using classification techniques: Logistic regression, artificial neural networks, support vector machines, and convolutional neural networks. <i>Heliyon</i> , 2021, 7, e07258.	1.4	42
158	A Hybrid EEG-based Emotion Recognition Approach Using Wavelet Convolutional Neural Networks and Support Vector Machine. <i>Basic and Clinical Neuroscience</i> , 2023, 14, 87-102.	0.3	1
159	Interpreting deep learning models for epileptic seizure detection on EEG signals. <i>Artificial Intelligence in Medicine</i> , 2021, 117, 102084.	3.8	35
160	Galvanic Vestibular Stimulation: Data Analysis and Applications in Neurorehabilitation. <i>IEEE Signal Processing Magazine</i> , 2021, 38, 54-64.	4.6	3
161	End-to-end learnable EEG channel selection for deep neural networks with Gumbel-softmax. <i>Journal of Neural Engineering</i> , 2021, 18, 0460a9.	1.8	25
163	An integrated deep learning model for motor intention recognition of multi-class EEG Signals in upper limb amputees. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 206, 106121.	2.6	22
164	A novel multi-scale convolutional neural network for motor imagery classification. <i>Biomedical Signal Processing and Control</i> , 2021, 68, 102747.	3.5	15
165	MPnnet: a Motion Planning Decoding Convolutional Neural Network for EEG-based Brain Computer Interfaces. , 2021, , .		3
166	Time-Frequency Decomposition of Scalp Electroencephalograms Improves Deep Learning-Based Epilepsy Diagnosis. <i>International Journal of Neural Systems</i> , 2021, 31, 2150032.	3.2	20

#	ARTICLE	IF	CITATIONS
167	Evaluating deep learning EEG-based mental stress classification in adolescents with autism for breathing entrainment BCI. <i>Brain Informatics</i> , 2021, 8, 13.	1.8	25
168	Resting-state EEG for the diagnosis of idiopathic epilepsy and psychogenic nonepileptic seizures: A systematic review. <i>Epilepsy and Behavior</i> , 2021, 121, 108047.	0.9	25
169	Realising the potential of digital psychiatry. <i>Lancet Psychiatry</i> , 2021, 8, 655.	3.7	4
170	A Convolutional Neural Network Architecture to Enhance Oximetry Ability to Diagnose Pediatric Obstructive Sleep Apnea. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 2906-2916.	3.9	37
171	Deep Convolutional Neural Network Regularization for Alcoholism Detection Using EEG Signals. <i>Sensors</i> , 2021, 21, 5456.	2.1	23
172	Video-Based Detection of Generalized Tonic-Clonic Seizures Using Deep Learning. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 2997-3008.	3.9	27
173	Data mining for electroencephalogram signal processing and analysis. , 2021, , .		0
174	Effects of Frontal Theta Rhythms in a Prior Resting State on the Subsequent Motor Imagery Brain-Computer Interface Performance. <i>Frontiers in Neuroscience</i> , 2021, 15, 663101.	1.4	2
175	Obstructive sleep apnea event prediction using recurrence plots and convolutional neural networks (RP-CNNs) from polysomnographic signals. <i>Biomedical Signal Processing and Control</i> , 2021, 69, 102928.	3.5	14
176	Analysis of epileptic seizures based on EEG using recurrence plot images and deep learning. <i>Biomedical Signal Processing and Control</i> , 2021, 69, 102854.	3.5	28
177	Interface, interaction, and intelligence in generalized brain-computer interfaces. <i>Trends in Cognitive Sciences</i> , 2021, 25, 671-684.	4.0	94
178	Differences first in asymmetric brain: A bi-hemisphere discrepancy convolutional neural network for EEG emotion recognition. <i>Neurocomputing</i> , 2021, 448, 140-151.	3.5	79
179	Towards online applications of EEG biometrics using visual evoked potentials. <i>Expert Systems With Applications</i> , 2021, 177, 114961.	4.4	13
180	A Combinatorial Deep Learning Structure for Precise Depth of Anesthesia Estimation From EEG Signals. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 3408-3415.	3.9	35
181	A channel-mixing convolutional neural network for motor imagery EEG decoding and feature visualization. <i>Biomedical Signal Processing and Control</i> , 2021, 70, 103021.	3.5	9
182	Multimodal Prediction of Alzheimer's Disease Severity Level Based on Resting-State EEG and Structural MRI. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 700627.	1.0	7
183	An EEG spectrogram-based automatic sleep stage scoring method via data augmentation, ensemble convolution neural network, and expert knowledge. <i>Biomedical Signal Processing and Control</i> , 2021, 70, 102981.	3.5	23
184	Mind the gap: State-of-the-art technologies and applications for EEG-based brain-computer interfaces. <i>APL Bioengineering</i> , 2021, 5, 031507.	3.3	28

#	ARTICLE	IF	CITATIONS
185	A convolutional-recurrent neural network approach to resting-state EEG classification in Parkinson's disease. <i>Journal of Neuroscience Methods</i> , 2021, 361, 109282.	1.3	42
186	Convolutional neural networks for decoding electroencephalography responses and visualizing trial by trial changes in discriminant features. <i>Journal of Neuroscience Methods</i> , 2021, 364, 109367.	1.3	7
187	Automatic detection of abnormal EEG signals using wavelet feature extraction and gradient boosting decision tree. <i>Biomedical Signal Processing and Control</i> , 2021, 70, 102957.	3.5	49
188	Boosting-LDA algorithm with multi-domain feature fusion for motor imagery EEG decoding. <i>Biomedical Signal Processing and Control</i> , 2021, 70, 102983.	3.5	20
189	Machine learning accurately classifies neural responses to rhythmic speech vs. non-speech from 8-week-old infant EEG. <i>Brain and Language</i> , 2021, 220, 104968.	0.8	13
190	A novel method for classification of multi-class motor imagery tasks based on feature fusion. <i>Neuroscience Research</i> , 2022, 176, 40-48.	1.0	18
191	Single Electrode Energy on Clinical Brain-Computer Interface Challenge. <i>Biomedical Signal Processing and Control</i> , 2021, 70, 102993.	3.5	1
192	Classification of cross task cognitive workload using deep recurrent network with modelling of temporal dynamics. <i>Biomedical Signal Processing and Control</i> , 2021, 70, 103070.	3.5	13
193	Optimizing Motor Intention Detection With Deep Learning: Towards Management of Intraoperative Awareness. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 3087-3097.	2.5	12
194	Review on Emotion Recognition Based on Electroencephalography. <i>Frontiers in Computational Neuroscience</i> , 2021, 15, 758212.	1.2	45
195	EEGdenoiseNet: a benchmark dataset for deep learning solutions of EEG denoising. <i>Journal of Neural Engineering</i> , 2021, 18, 056057.	1.8	71
196	ScalingNet: Extracting features from raw EEG data for emotion recognition. <i>Neurocomputing</i> , 2021, 463, 177-184.	3.5	29
197	Mental individuation of imagined finger movements can be achieved using TMS-based neurofeedback. <i>NeuroImage</i> , 2021, 242, 118463.	2.1	6
198	fMRI-Informed EEG for brain mapping of imagined lower limb movement: Feasibility of a brain computer interface. <i>Journal of Neuroscience Methods</i> , 2021, 363, 109339.	1.3	6
199	Predicting hypoxic hypoxia using machine learning and wearable sensors. <i>Biomedical Signal Processing and Control</i> , 2022, 71, 103110.	3.5	8
200	Motor imagery based brain-computer interface: improving the EEG classification using Delta rhythm and LightGBM algorithm. <i>Biomedical Signal Processing and Control</i> , 2022, 71, 103102.	3.5	14
201	EEG channel selection strategy for deep learning in emotion recognition. <i>Procedia Computer Science</i> , 2021, 192, 2789-2796.	1.2	9
202	Data-driven Data Augmentation for Motor Imagery Brain-Computer Interface. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
203	Deep-Learning-Based Automatic Selection of Fewest Channels for Brain-Machine Interfaces. IEEE Transactions on Cybernetics, 2022, 52, 8668-8680.	6.2	7
204	Ahed: A Heterogeneous-Domain Deep Learning Model for IoT-Enabled Smart Health With Few-Labeled EEG Data. IEEE Internet of Things Journal, 2021, 8, 16787-16800.	5.5	8
205	Deep Learning for Grasp-and-Lift Movement Forecasting Based on Electroencephalography by Brain-Computer Interface. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 3-12.	0.5	7
206	EEG-Based Brain-Computer Interfaces (BCIs): A Survey of Recent Studies on Signal Sensing Technologies and Computational Intelligence Approaches and Their Applications. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 1645-1666.	1.9	144
207	Objective Evaluation Metrics for Automatic Classification of EEG Events. , 2021, , 223-255.		10
208	Predicting nonverbal intelligence level from resting-state connectivity: a neural networks approach. Journal of Physics: Conference Series, 2021, 1727, 012010.	0.3	0
209	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
210	Learning Common Time-Frequency-Spatial Patterns for Motor Imagery Classification. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 699-707.	2.7	66
211	Brain-computer interface robotics for hand rehabilitation after stroke: a systematic review. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 15.	2.4	94
212	Deep Learning Methods in Electroencephalography. Learning and Analytics in Intelligent Systems, 2020, , 191-212.	0.5	7
213	Review of semi-dry electrodes for EEG recording. Journal of Neural Engineering, 2020, 17, 051004.	1.8	95
217	Classification of Focal and Non-Focal Epileptic Patients Using Single Channel EEG and Long Short-Term Memory Learning System. IEEE Access, 2020, 8, 77255-77262.	2.6	36
218	ROS-Neuro Integration of Deep Convolutional Autoencoders for EEG Signal Compression in Real-time BCIs. , 2020, , .		3
219	Epileptic Seizure Detection in EEG via Fusion of Multi-View Attention-Gated U-Net Deep Neural Networks. , 2020, , .		10
220	Decoding Brain Representations by Multimodal Learning of Neural Activity and Visual Features. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3833-3849.	9.7	43
221	Epileptic Seizure Detection Using Convolutional Neural Network: A Multi-Biosignal study. , 2020, , .		13
222	LiHEA: Migrating EEG Analytics to Ultra-Edge IoT Devices With Logic-in-Headbands. IEEE Access, 2021, 9, 138834-138848.	2.6	5
223	Improving EEG-based Alzheimer's Disease Identification with Generative Adversarial Learning. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
224	Deep Learning Architectures Used In Eeg-Based Estimation Of Cognitive workload: A Review. , 2021, , .		2
225	Recognition of EEG Signals from Imagined Vowels Using Deep Learning Methods. Sensors, 2021, 21, 6503.	2.1	13
227	Dataset of concurrent EEG, ECG, and behavior with multiple doses of transcranial electrical stimulation. Scientific Data, 2021, 8, 274.	2.4	5
228	Neural correlates of affective content: application to perceptual tagging of video. Neural Computing and Applications, 2023, 35, 7925-7941.	3.2	3
229	Essentials of Predicting Epileptic Seizures Based on EEG Using Machine Learning: A Review. Open Biomedical Engineering Journal, 2021, 15, 90-104.	0.7	4
230	Classification of alcoholic EEG signals using wavelet scattering transform-based features. Computers in Biology and Medicine, 2021, 139, 104969.	3.9	33
231	Labeling Activities Acquired by a Low-Accuracy EEG Device. Lecture Notes in Networks and Systems, 2020, , 848-859.	0.5	0
234	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
235	Comparative Study on Machine Learning Classifiers for Epileptic Seizure Detection in Reference to EEG Signals. Advances in Intelligent Systems and Computing, 2021, , 185-194.	0.5	6
236	Inner Speech Classification using EEG Signals: A Deep Learning Approach. , 2021, , .		4
237	Linear Systems Theoretic Approach to Interpretation of Spatial and Temporal Weights in Compact CNNs: Monte-Carlo Study. Advances in Intelligent Systems and Computing, 2021, , 365-370.	0.5	0
239	Validation of Temporal Scoring Metrics for Automatic Seizure Detection. , 2020, , .		11
242	EEG-Inception: A Novel Deep Convolutional Neural Network for Assistive ERP-Based Brain-Computer Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2773-2782.	2.7	49
243	Lw-CNN-Based Myoelectric Signal Recognition and Real-Time Control of Robotic Arm for Upper-Limb Rehabilitation. Computational Intelligence and Neuroscience, 2020, 2020, 1-12.	1.1	13
244	Attention Estimation in Virtual Reality with EEG based Image Regression. , 2020, , .		8
245	ForeSeiz: An IoMT based headband for Real-time epileptic seizure forecasting. Expert Systems With Applications, 2022, 188, 116083.	4.4	8
246	Handling Class Imbalance in Electroencephalography Data Using Synthetic Minority Oversampling Technique. Communications in Computer and Information Science, 2021, , 12-21.	0.4	0
247	Deep learning in power systems research: A review. CSEE Journal of Power and Energy Systems, 2020, , .	1.7	28

#	ARTICLE	IF	CITATIONS
248	Object classification from randomized EEG trials. , 2021, , .		10
249	A Generalizable and Discriminative Learning Method for Deep EEG-Based Motor Imagery Classification. Frontiers in Neuroscience, 2021, 15, 760979.	1.4	9
250	Deep Learning Approaches for Personal Identification Based on EGG Signals. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 30-39.	0.5	0
251	Decoding Neural Signals with a Compact and Interpretable Convolutional Neural Network. Studies in Computational Intelligence, 2021, , 420-428.	0.7	2
252	Quantifying Cognitive Load in Wayfinding Information Review Using EEG. , 2020, , .		1
253	Multiscale detrended cross-correlation of EEG and RR intervals during focal epilepsy. , 2020, , .		1
254	On EEG Preprocessing Role in Deep Learning Effectiveness for Mental Workload Classification. Communications in Computer and Information Science, 2021, , 81-98.	0.4	6
255	An updated systematic review and meta-analysis of brain network organization in focal epilepsy: Looking back and forth. Neuroscience and Biobehavioral Reviews, 2022, 132, 211-223.	2.9	15
256	Subject-Independent Drowsiness Recognition from Single-Channel EEG with an Interpretable CNN-LSTM model. , 2021, , .		15
257	Automatic Sleep Stage Scoring on Raw Single-Channel EEG : A comparative analysis of CNN Architectures. , 2021, , .		3
258	Evaluating Convolutional Neural Networks as a Method of EEG-EMG Fusion. Frontiers in Neuroinformatics, 2021, 15, 692183.	1.6	7
259	A whole-process interpretable and multi-modal deep reinforcement learning for diagnosis and analysis of Alzheimer's disease . Journal of Neural Engineering, 2021, 18, 066032.	1.8	14
261	Automatic Sleep Stage Classification of Children with Sleep-Disordered Breathing Using the Modularized Network. Nature and Science of Sleep, 2021, Volume 13, 2101-2112.	1.4	7
262	Foundations of Time Series Analysis. Acta Neurochirurgica Supplementum, 2022, 134, 215-220.	0.5	1
263	Introduction to Deep Learning in Clinical Neuroscience. Acta Neurochirurgica Supplementum, 2022, 134, 79-89.	0.5	2
264	Predicting Neurological Outcome From Electroencephalogram Dynamics in Comatose Patients After Cardiac Arrest With Deep Learning. IEEE Transactions on Biomedical Engineering, 2022, 69, 1813-1825.	2.5	11
265	An Automatic Method for Epileptic Seizure Detection Based on Deep Metric Learning. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2147-2157.	3.9	17
267	NeuroGrasp: Real-Time EEG Classification of High-Level Motor Imagery Tasks Using a Dual-Stage Deep Learning Framework. IEEE Transactions on Cybernetics, 2022, 52, 13279-13292.	6.2	24

#	ARTICLE	IF	CITATIONS
268	FB-CGANet: filter bank channel group attention network for multi-class motor imagery classification. <i>Journal of Neural Engineering</i> , 2022, 19, 016011.	1.8	11
269	MNEflow: Neural networks for EEG/MEG decoding and interpretation. <i>SoftwareX</i> , 2022, 17, 100951.	1.2	2
270	Emotion recognition using effective connectivity and pre-trained convolutional neural networks in EEG signals. <i>Cognitive Neurodynamics</i> , 2022, 16, 1087-1106.	2.3	16
271	Analysis of Sound Imagery in EEG with a Convolutional Neural Network and an Input-perturbation Network Prediction Technique. , 2020, , .		0
272	Modeling the Relationship Between Cognitive State and Task Performance in Passive BCIs using Cross-Dataset Learning. , 2020, , .		3
273	RP-based Voluntary Movement Intention Detection of Lower limb using CNN. , 2020, , .		1
274	A Two-Stage Deep Learning Scheme to Estimate Depth of Anesthesia from EEG Signals. , 2020, , .		1
275	Drowsiness Detection Using Joint EEG-ECG Data With Deep Learning. , 2021, , .		6
276	Adequately Wide 1D CNN facilitates improved EEG based Visual Object Recognition. , 2021, , .		2
277	Convolutional and Recurrent Neural Networks for Physical Action Forecasting by Brain-Computer Interface. , 2021, , .		2
278	Automated Generated Binaural Beats Using EEG: A User-Friendly Auditory Brain-Computer Interface. , 2021, , .		0
279	Performance of 1D-CNNs for EEG-Based Mental State Classification: Effects of Domain, Window Size and Electrode Montage. , 2021, , .		1
280	EEG signal analysis using deep learning: A systematic literature review. , 2021, , .		13
281	Deep Learning End-to-End Approach for the Prediction of Tinnitus based on EEG Data. , 2021, 2021, 816-819.		5
282	Review of Drowsiness Detection Machine-Learning Methods Applicable for Non-Invasive Brain-Computer Interfaces. , 2021, , .		0
283	An Impending Paradigm Shift in Motor Imagery Based Brain-Computer Interfaces. <i>Frontiers in Neuroscience</i> , 2021, 15, 824759.	1.4	5
284	Machine Learning-Derived Multimodal Neuroimaging of Presurgical Target Area to Predict Individual's Seizure Outcomes After Epilepsy Surgery. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 669795.	1.8	3
285	Machine learning based brain signal decoding for intelligent adaptive deep brain stimulation. <i>Experimental Neurology</i> , 2022, 351, 113993.	2.0	35

#	ARTICLE	IF	CITATIONS
286	Permutation Entropy-Based Interpretability of Convolutional Neural Network Models for Interictal EEG Discrimination of Subjects with Epileptic Seizures vs. Psychogenic Non-Epileptic Seizures. <i>Entropy</i> , 2022, 24, 102.	1.1	16
288	Deep learning for biosignal control: insights from basic to real-time methods with recommendations. <i>Journal of Neural Engineering</i> , 2022, 19, 011003.	1.8	10
289	Improving Cross-State and Cross-Subject Visual ERP-Based BCI With Temporal Modeling and Adversarial Training. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 369-379.	2.7	7
290	Ballistocardiogram artifact removal in simultaneous EEG-fMRI using generative adversarial network. <i>Journal of Neuroscience Methods</i> , 2022, 371, 109498.	1.3	9
291	IoT-based deep learning controlled robot vehicle for paralyzed patients of smart cities. <i>Journal of Supercomputing</i> , 2022, 78, 11373-11408.	2.4	4
292	Image-Based Learning Using Gradient Class Activation Maps for Enhanced Physiological Interpretability of Motor Imagery Skills. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1695.	1.3	4
293	AI-Based Reconstruction for Fast MRI—A Systematic Review and Meta-Analysis. <i>Proceedings of the IEEE</i> , 2022, 110, 224-245.	16.4	57
294	Recognition of emotional states using frequency effective connectivity maps through transfer learning approach from electroencephalogram signals. <i>Biomedical Signal Processing and Control</i> , 2022, 75, 103544.	3.5	17
295	Intelligent and Multifunctional Graphene Nanomesh Electronic Skin with High Comfort. <i>Small</i> , 2022, 18, e2104810.	5.2	42
297	Monitoring and Analyzing Yield Gap in Africa through Soil Attribute Best Management Using Remote Sensing Approaches: A Review. <i>Remote Sensing</i> , 2021, 13, 4602.	1.8	9
298	A review of automated sleep stage scoring. , 2021, , .		0
299	EEG-ITNet: An Explainable Inception Temporal Convolutional Network for Motor Imagery Classification. <i>IEEE Access</i> , 2022, 10, 36672-36685.	2.6	24
300	Deep Learning Enables Accurate Automatic Sleep Staging Based on Ambulatory Forehead EEG. <i>IEEE Access</i> , 2022, 10, 26554-26566.	2.6	11
301	Seizure Types Classification by Generating Input Images With in-Depth Features From Decomposed EEG Signals for Deep Learning Pipeline. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 4903-4912.	3.9	10
302	Introduction of Beat Oscillation to Improve the Performance of Music BCI Decoder. , 2022, , .		1
303	An Ensemble of Convolutional Neural Networks for Zero-Calibration ERP-Based BCIs. , 2022, , .		1
304	Prediction of epileptic seizures from spectral features of intracranial eeg recordings using deep learning approach. <i>Multimedia Tools and Applications</i> , 2022, 81, 28875-28898.	2.6	8
305	Decoding ECoG signal into 3D hand translation using deep learning. <i>Journal of Neural Engineering</i> , 2022, 19, 026023.	1.8	15

#	ARTICLE	IF	CITATIONS
306	State of Charge Estimation for Lithium-Ion Batteries Based on TCN-LSTM Neural Networks. Journal of the Electrochemical Society, 2022, 169, 030544.	1.3	21
307	Good scientific practice in EEG and MEG research: Progress and perspectives. NeuroImage, 2022, 257, 119056.	2.1	15
308	Platypus – A Mobile Robot Platform and Demonstration Tool Supporting STEM Education. Sensors, 2022, 22, 2284.	2.1	7
309	Two-dimensional CNN-based distinction of human emotions from EEG channels selected by multi-objective evolutionary algorithm. Scientific Reports, 2022, 12, 3523.	1.6	15
310	Alterations in Cortical-Subcortical Metabolism in Temporal Lobe Epilepsy With Impaired Awareness Seizures. Frontiers in Aging Neuroscience, 2022, 14, 849774.	1.7	2
311	Automatic sleep staging of EEG signals: recent development, challenges, and future directions. Physiological Measurement, 2022, 43, 04TR01.	1.2	45
312	Interictal EEG and ECG for SUDEP Risk Assessment: A Retrospective Multicenter Cohort Study. Frontiers in Neurology, 2022, 13, 858333.	1.1	2
313	Toward Open-World Electroencephalogram Decoding Via Deep Learning: A comprehensive survey. IEEE Signal Processing Magazine, 2022, 39, 117-134.	4.6	37
314	How Machine Learning is Powering Neuroimaging to Improve Brain Health. Neuroinformatics, 2022, 20, 943-964.	1.5	13
316	Epileptic seizure prediction using spectral width of the covariance matrix. Journal of Neural Engineering, 2022, 19, 026029.	1.8	6
317	Retrospective on the First Passive Brain-Computer Interface Competition on Cross-Session Workload Estimation. Frontiers in Neuroergonomics, 2022, 3, .	0.6	10
318	A lightweight and accurate double-branch neural network for four-class motor imagery classification. Biomedical Signal Processing and Control, 2022, 75, 103582.	3.5	7
319	Real-time estimation of perceptual thresholds based on the electroencephalogram using a deep neural network. Journal of Neuroscience Methods, 2022, 374, 109580.	1.3	0
320	Robust learning from corrupted EEG with dynamic spatial filtering. NeuroImage, 2022, 251, 118994.	2.1	14
321	Comparison of domain specific connectivity metrics for estimation brain network indices in boys with ADHD-C. Biomedical Signal Processing and Control, 2022, 76, 103626.	3.5	6
322	EEG Classification by Minimalistic Convolutional Neural Network Utilizing Context Information. , 2021, , .		0
323	Automatic Detection of EEG Epileptiform Abnormalities in Traumatic Brain Injury using Deep Learning. , 2021, 2021, 302-305.		1
324	Multi-subject classification of Motor Imagery EEG signals using transfer learning in neural networks. , 2021, 2021, 1006-1009.		5

#	ARTICLE	IF	CITATIONS
325	An Ensemble CNN for Subject-Independent Classification of Motor Imagery-based EEG. , 2021, 2021, 319-324.		5
326	One-class autoencoder approach for optimal electrode set identification in wearable EEG event monitoring[*]. , 2021, 2021, 7128-7131.		0
327	Deep Convolutional Neural Network Applied to Electroencephalography: Raw Data vs Spectral Features. , 2021, 2021, 1039-1042.		7
328	Comparison of Different Data Augmentation Methods With an Experimental EEG Dataset. , 2021, , .		1
329	Deep Learning with Noise Data Augmentation and Detrended Fluctuation Analysis for Physical Action Classification by Brain-Computer Interface. , 2021, , .		2
330	Towards Deeper Neural Networks for Neonatal Seizure Detection. , 2021, 2021, 920-923.		4
331	An artificial neural-network approach to identify motor hotspot for upper-limb based on electroencephalography: a proof-of-concept study. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 176.	2.4	1
332	Early Diagnosis of Multiple Sclerosis Using Swept-Source Optical Coherence Tomography and Convolutional Neural Networks Trained with Data Augmentation. Sensors, 2022, 22, 167.	2.1	17
334	Resting-State EEG Signal for Major Depressive Disorder Detection: A Systematic Validation on a Large and Diverse Dataset. Biosensors, 2021, 11, 499.	2.3	34
335	Sleep Stage Recognition from EEG Using a Distributed Multi-Channel Decision-Making System. , 2021, , .		2
336	Alpha suppression indexes a spotlight of visual-spatial attention that can shine on both perceptual and memory representations. Psychonomic Bulletin and Review, 2022, 29, 681-698.	1.4	23
337	Automatic Report-Based Labelling of Clinical EEGs for Classifier Training. , 2021, , .		1
338	Assessing learned features of Deep Learning applied to EEG. , 2021, , .		3
339	An efficient epileptic seizure detection based on tunable Q-wavelet transform and DCVAE-stacked Bi-LSTM model using electroencephalogram. European Physical Journal: Special Topics, 2022, 231, 2425-2437.	1.2	5
340	Automatic Approach for Detecting the Seizure Using RCCN Architecture. International Journal of Advanced Research in Science, Communication and Technology, 0, , 157-169.	0.0	0
341	AJILE12: Long-term naturalistic human intracranial neural recordings and pose. Scientific Data, 2022, 9, 184.	2.4	7
342	Interpretable functional specialization emerges in deep convolutional networks trained on brain signals. Journal of Neural Engineering, 2022, 19, 036006.	1.8	3
343	Time-Frequency Representations of Brain Oscillations: Which One Is Better?. Frontiers in Neuroinformatics, 2022, 16, 871904.	1.3	6

#	ARTICLE	IF	CITATIONS
346	An EEG-based systematic explainable detection framework for probing and localizing abnormal patterns in Alzheimer's disease. <i>Journal of Neural Engineering</i> , 2022, 19, 036007.	1.8	2
347	GANSER: A Self-Supervised Data Augmentation Framework for EEG-Based Emotion Recognition. <i>IEEE Transactions on Affective Computing</i> , 2023, 14, 2048-2063.	5.7	21
348	Machine Learning Approach for Classifying College Scholastic Ability Test Levels With Unsupervised Features From Prefrontal Functional Near-Infrared Spectroscopy Signals. <i>IEEE Access</i> , 2022, 10, 50864-50877.	2.6	1
349	Neuroscientific Research Methods and Techniques in Consumer Research. <i>Australasian Marketing Journal</i> , 2023, 31, 211-227.	3.5	0
350	Past, Present, and Future of EEG-Based BCI Applications. <i>Sensors</i> , 2022, 22, 3331.	2.1	48
351	A State-of-the-Art Review of EEG-Based Imagined Speech Decoding. <i>Frontiers in Human Neuroscience</i> , 2022, 16, 867281.	1.0	11
352	EEG-ConvTransformer for single-trial EEG-based visual stimulus classification. <i>Pattern Recognition</i> , 2022, 129, 108757.	5.1	30
353	Active Brain-Computer Interfacing for Healthy Users. <i>Frontiers in Neuroscience</i> , 2022, 16, 859887.	1.4	3
354	Medical deep learning—A systematic meta-review. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 221, 106874.	2.6	76
355	ARX-based EEG data balancing for error potential BCI. <i>Journal of Neural Engineering</i> , 2022, 19, 036023.	1.8	2
356	Decoding neural activity preceding balance loss during standing with a lower-limb exoskeleton using an interpretable deep learning model. <i>Journal of Neural Engineering</i> , 2022, 19, 036015.	1.8	5
357	Automatic detection of the spike-and-wave discharges in absence epilepsy for humans and rats using deep learning. <i>Biomedical Signal Processing and Control</i> , 2022, 76, 103726.	3.5	3
358	A novel multi-branch hybrid neural network for motor imagery EEG signal classification. <i>Biomedical Signal Processing and Control</i> , 2022, 77, 103718.	3.5	16
359	GMSS: Graph-Based Multi-Task Self-Supervised Learning for EEG Emotion Recognition. <i>IEEE Transactions on Affective Computing</i> , 2023, 14, 2512-2525.	5.7	10
361	EEG Daydreaming, A Machine Learning Approach to Detect Daydreaming Activities. <i>Lecture Notes in Computer Science</i> , 2022, , 202-212.	1.0	2
362	Advances in Wearable Brain-Computer Interfaces From an Algorithm-Hardware Co-Design Perspective. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022, 69, 3071-3077.	2.2	3
363	A CNN-Based Deep Learning Approach for SSVEP Detection Targeting Binaural Ear-EEG. <i>Frontiers in Computational Neuroscience</i> , 2022, 16, .	1.2	5
364	IENet: a robust convolutional neural network for EEG based brain-computer interfaces. <i>Journal of Neural Engineering</i> , 2022, 19, 036031.	1.8	6

#	ARTICLE	IF	CITATIONS
365	Bridging the gap between patient-specific and patient-independent seizure prediction via knowledge distillation. <i>Journal of Neural Engineering</i> , 2022, 19, 036035.	1.8	11
366	Predicting the Effects of Repetitive Transcranial Magnetic Stimulation on Cognitive Functions in Patients With Alzheimer's Disease by Automated EEG Analysis. <i>Frontiers in Cellular Neuroscience</i> , 2022, 16, .	1.8	5
367	Machine learning classification of maladaptive rumination and cognitive distraction in terms of frequency specific complexity. <i>Biomedical Signal Processing and Control</i> , 2022, 77, 103740.	3.5	16
368	Wearable EEG electronics for a Brain- ϵ AI Closed-Loop System to enhance autonomous machine decision-making. <i>Npj Flexible Electronics</i> , 2022, 6, .	5.1	29
369	A MACHINE LEARNING-BASED APPROACH TO EPILEPTIC SEIZURE PREDICTION USING ELECTROENCEPHALOGRAPHIC SIGNALS. <i>Journal of Engineering Research</i> , 2022, 2, 2-9.	0.0	2
370	How to successfully classify EEG in motor imagery BCI: a metrological analysis of the state of the art. <i>Journal of Neural Engineering</i> , 2022, 19, 031002.	1.8	31
371	Deep Conviction Systems for Biomedical Applications Using Intuiting Procedures With Cross Point Approach. <i>Frontiers in Public Health</i> , 2022, 10, .	1.3	11
372	EEG-based vibrotactile evoked brain-computer interfaces system: A systematic review. <i>PLoS ONE</i> , 2022, 17, e0269001.	1.1	3
373	Intelligent Classification Technique of Hand Motor Imagery Using EEG Beta Rebound Follow-Up Pattern. <i>Biosensors</i> , 2022, 12, 384.	2.3	3
374	uBrain. , 2022, , .		4
376	Automatic epileptic signal classification using deep convolutional neural network. <i>Journal of Discrete Mathematical Sciences and Cryptography</i> , 2022, 25, 963-973.	0.5	1
377	Vowel speech recognition from rat electroencephalography using long short-term memory neural network. <i>PLoS ONE</i> , 2022, 17, e0270405.	1.1	1
378	The two decades brainclinics research archive for insights in neurophysiology (TDBRAIN) database. <i>Scientific Data</i> , 2022, 9, .	2.4	19
379	Pseudo-online detection and classification for upper-limb movements. <i>Journal of Neural Engineering</i> , 2022, 19, 036042.	1.8	5
380	Brain Waves Pattern Recognition Using LSTM-RNN for Internet of Brain-Controlled Things (IoBCT) Applications. , 2022, , .		3
382	A new feature selection approach for driving fatigue EEG detection with a modified machine learning algorithm. <i>Computers in Biology and Medicine</i> , 2022, 147, 105718.	3.9	13
383	Minimal EEG channel selection for depression detection with connectivity features during sleep. <i>Computers in Biology and Medicine</i> , 2022, 147, 105690.	3.9	17
384	EEGSym: Overcoming Inter-Subject Variability in Motor Imagery Based BCIs With Deep Learning. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 1766-1775.	2.7	19

#	ARTICLE	IF	CITATIONS
387	Exploiting Missing Value Patterns for a Backdoor Attack on Machine Learning Models of Electronic Health Records: Development and Validation Study. JMIR Medical Informatics, 2022, 10, e38440.	1.3	1
388	SEEG-Net: An explainable and deep learning-based cross-subject pathological activity detection method for drug-resistant epilepsy. Computers in Biology and Medicine, 2022, 148, 105703.	3.9	7
389	A method for AI assisted human interpretation of neonatal EEG. Scientific Reports, 2022, 12, .	1.6	6
390	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
391	Compensated Integrated Gradients for Reliable Explanation of Electroencephalogram Signal Classification. Brain Sciences, 2022, 12, 849.	1.1	1
392	A solution to supervised motor imagery task in the BCI Controlled Robot Contest in World Robot Contest. Brain Science Advances, 2022, 8, 153-161.	0.3	2
393	Survey of Machine Learning Techniques in the Analysis of EEG Signals for Parkinson's Disease: A Systematic Review. Applied Sciences (Switzerland), 2022, 12, 6967.	1.3	16
394	CNN models for EEG motor imagery signal classification. Signal, Image and Video Processing, 2023, 17, 825-830.	1.7	7
395	A hybrid autoencoder framework of dimensionality reduction for brain-computer interface decoding. Computers in Biology and Medicine, 2022, 148, 105871.	3.9	3
397	Poststroke motor, cognitive and speech rehabilitation with brain-computer interface: a perspective review. Stroke and Vascular Neurology, 2022, 7, 541-549.	1.5	13
398	Artificial Intelligence for Natural Intelligence. Advances in Computational Intelligence and Robotics Book Series, 2022, , 22-42.	0.4	0
399	A deep learning framework for epileptic seizure detection based on neonatal EEG signals. Scientific Reports, 2022, 12, .	1.6	19
400	Machine learning and clinical neurophysiology. Journal of Neurology, 2022, 269, 6678-6684.	1.8	1
401	Classification of motor imagery EEG using deep learning increases performance in inefficient BCI users. PLoS ONE, 2022, 17, e0268880.	1.1	23
402	Objective speech intelligibility prediction using a deep learning model with continuous speech-evoked cortical auditory responses. Frontiers in Neuroscience, 0, 16, .	1.4	0
403	Analyzing Brain Waves of Table Tennis Players with Machine Learning for Stress Classification. Applied Sciences (Switzerland), 2022, 12, 8052.	1.3	7
404	Towards Robust, Reproducible, and Clinically Actionable EEG Biomarkers: Large Open Access EEG Database for Discovery and Out-of-sample Validation. Clinical EEG and Neuroscience, 0, , 155005942211205.	0.9	3
405	TopographyNET. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
407	A reusable benchmark of brain-age prediction from M/EEG resting-state signals. <i>NeuroImage</i> , 2022, 262, 119521.	2.1	20
408	ABOT: an open-source online benchmarking tool for machine learning-based artefact detection and removal methods from neuronal signals. <i>Brain Informatics</i> , 2022, 9, .	1.8	0
409	Improved Manual Annotation of EEG Signals through Convolutional Neural Network Guidance. <i>ENeuro</i> , 2022, 9, ENEURO.0160-22.2022.	0.9	3
410	A new attention-based 3D densely connected cross-stage-partial network for motor imagery classification in BCI. <i>Journal of Neural Engineering</i> , 2022, 19, 056026.	1.8	2
411	Subject-Independent Classification of P300 Event-Related Potentials Using a Small Number of Training Subjects. <i>IEEE Transactions on Human-Machine Systems</i> , 2022, 52, 843-854.	2.5	7
412	Wearable electroencephalography and multi-modal mental state classification: A systematic literature review. <i>Computers in Biology and Medicine</i> , 2022, 150, 106088.	3.9	6
413	Tactile Sensation Assisted Motor Imagery Training for Enhanced BCI Performance: A Randomized Controlled Study. <i>IEEE Transactions on Biomedical Engineering</i> , 2023, 70, 694-702.	2.5	9
414	ML vs DL: Accuracy and Testing Runtime Trade-offs in BCI. <i>Lecture Notes in Computer Science</i> , 2022, , 497-511.	1.0	0
415	Cardiac Artifact Noise Removal From Sleep EEG Signals Using Hybrid Denoising Model. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-10.	2.4	9
416	A Transferable Deep Learning Prognosis Model for Predicting Stroke Patients' Recovery in Different Rehabilitation Trainings. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 6003-6011.	3.9	6
417	High-Powered Ocular Artifact Detection with LSTM-E. <i>Lecture Notes in Computer Science</i> , 2022, , 482-496.	1.0	0
418	Single-Subject vs. Cross-Subject Motor Imagery Models. <i>Lecture Notes in Computer Science</i> , 2022, , 442-452.	1.0	1
419	Time Majority Voting, a PC-Based EEG Classifier for Non-expert Users. <i>Lecture Notes in Computer Science</i> , 2022, , 415-428.	1.0	2
420	Neurophysiological and Subjective Analysis of VR Emotion Induction Paradigm. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2022, 28, 3832-3842.	2.9	4
421	Vector-Based Data Improves Left-Right Eye-Tracking Classifier Performance After a Covariate Distributional Shift. <i>Lecture Notes in Computer Science</i> , 2022, , 617-632.	1.0	0
422	Epileptic Seizure Classification Using Battle Royale Search and Rescue Optimization-Based Deep LSTM. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 5494-5505.	3.9	7
423	Enhanced Monotonic Activation Function in Convolutional Neural Network for Multiclass EEG Signal Classification. <i>Lecture Notes in Electrical Engineering</i> , 2022, , 559-570.	0.3	0
424	Diagnostic and prognostic EEG analysis of critically ill patients: A deep learning study. <i>NeuroImage: Clinical</i> , 2022, 36, 103167.	1.4	2

#	ARTICLE	IF	CITATIONS
425	Optimizing ML Algorithms Under CSP and Riemannian Covariance in MI-BCIs. Lecture Notes in Computer Science, 2022, , 546-556.	1.0	0
426	CNN with Self-attention in EEG Classification. Lecture Notes in Computer Science, 2022, , 512-526.	1.0	0
427	Subject-Independent Classification of Motor Imagery Tasks in EEG Using Multisubject Ensemble CNN. IEEE Access, 2022, 10, 81355-81363.	2.6	7
428	Comparison of Brainwave Sensors and Mental State Classifiers. International Journal of Artificial Intelligence and Machine Learning, 2022, 12, 1-13.	0.4	0
429	It's Easy as ABC Framework for User Feedback. Lecture Notes in Computer Science, 2022, , 429-441.	1.0	0
430	Hybrid Convolutional, Recurrent and Attention-Based Architectures of Deep Neural Networks for Classification of Human-Computer Interaction by Electroencephalography. Lecture Notes in Computer Science, 2022, , 453-468.	1.0	0
431	Discrimination of Types of Seizure Using Brain Rhythms Based on Markov Transition Field and Deep Learning. , 2022, 1, 1-8.		2
432	A streamable large-scale clinical EEG dataset for Deep Learning. , 2022, , .		1
433	MCFHNet: Multi-Channel Fusion Hybrid Network for Efficient EEG-fNIRS Multi-modal Motor Imagery Decoding. , 2022, , .		1
434	A novel deep learning approach using AlexNet for the classification of electroencephalograms in Alzheimer's Disease and Mild Cognitive Impairment. , 2022, , .		2
435	Explanations of Deep Networks on EEG Data via Interpretable Approaches. , 2022, , .		1
436	Moving the field forward: detection of epileptiform abnormalities on scalp electroencephalography using deep learning – clinical application perspectives. Brain Communications, 2022, 4, .	1.5	5
437	An ensemble deep learning approach to evaluate haptic delay from a single trial EEG data. Frontiers in Robotics and AI, 0, 9, .	2.0	1
438	Deep learning for automated epileptiform discharge detection from scalp EEG: A systematic review. Journal of Neural Engineering, 2022, 19, 051002.	1.8	10
439	An efficient CNN-LSTM network with spectral normalization and label smoothing technologies for SSVEP frequency recognition. Journal of Neural Engineering, 2022, 19, 056014.	1.8	13
440	Three simple steps to improve the interpretability of EEG-SVM studies. Journal of Neurophysiology, 2022, 128, 1375-1382.	0.9	2
441	Deep learning-based self-induced emotion recognition using EEG. Frontiers in Neuroscience, 0, 16, .	1.4	3
442	Is the Contralateral Delay Activity (CDA) a robust neural correlate for Visual Working Memory (VWM) tasks? A reproducibility study. Psychophysiology, 2023, 60, .	1.2	6

#	ARTICLE	IF	CITATIONS
443	Information Contained in EEG Allows Characterization of Cognitive Decline in Neurodegenerative Disorders. <i>Clinical EEG and Neuroscience</i> , 2023, 54, 391-398.	0.9	4
444	An EEG-Based Thought Recognition Using Pseudo-Wignerâ€™Kullbackâ€™Leibler Deep Neural Classification. <i>Circuits, Systems, and Signal Processing</i> , 2023, 42, 1063-1082.	1.2	1
445	Automated Interictal Epileptiform Discharge Detection from Scalp EEG Using Scalable Time-series Classification Approaches. <i>International Journal of Neural Systems</i> , 2023, 33, .	3.2	2
446	A Parallel Feature Fusion Network Combining GRU and CNN for Motor Imagery EEG Decoding. <i>Brain Sciences</i> , 2022, 12, 1233.	1.1	9
447	An automated brain tumor classification in MR images using an enhanced convolutional neural network. <i>International Journal of Information Technology (Singapore)</i> , 2023, 15, 665-674.	1.8	8
448	A DNN-based approach to predict dynamic mooring tensions for semi-submersible platform under a mooring line failure condition. <i>Ocean Engineering</i> , 2022, 266, 112767.	1.9	8
449	Using Machine Learning to Determine Optimal Sleeping Schedules of Individual College Students. <i>Lecture Notes in Computer Science</i> , 2022, , 13-25.	1.0	0
450	Deep-Learning Model Based on Convolutional Neural Networks to Classify Apneaâ€™Hypopnea Events from the Oximetry Signal. <i>Advances in Experimental Medicine and Biology</i> , 2022, , 255-264.	0.8	1
451	Unsupervised emotional state recognition based on clustering of EEG features. <i>Procedia Computer Science</i> , 2022, 207, 3093-3102.	1.2	1
452	Detection Of Event-Related Potential Artifacts Of Oddball Paradigm By Unsupervised Machine Learning Algorithm. <i>Advances in Science, Technology and Engineering Systems</i> , 2022, 7, 157-166.	0.4	0
453	Exploring the Visual Guidance of Motor Imagery in Sustainable Brainâ€™Computer Interfaces. <i>Sustainability</i> , 2022, 14, 13844.	1.6	2
454	A machine learning eye movement detection algorithm using electrooculography. <i>Sleep</i> , 2023, 46, .	0.6	0
455	The present and future of neural interfaces. <i>Frontiers in Neurorobotics</i> , 0, 16, .	1.6	4
456	EEG-Oriented Self-Supervised Learning and Cluster-Aware Adaptation. , 2022, , .		1
457	EEG diagnosis of depression based on multi-channel data fusion and clipping augmentation and convolutional neural network. <i>Frontiers in Physiology</i> , 0, 13, .	1.3	1
458	Rethinking Saliency Map: A Context-Aware Perturbation Method to Explain EEG-Based Deep Learning Model. <i>IEEE Transactions on Biomedical Engineering</i> , 2023, 70, 1462-1472.	2.5	1
459	Inter-subject prediction of pediatric emergence delirium using feature selection and classification from spontaneous EEG signals. <i>Biomedical Signal Processing and Control</i> , 2023, 80, 104359.	3.5	4
460	Evaluation of Steady-State Visual Evoked Potentials (SSVEP) Stimuli Design for Visual Field Assessment. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
461	EEG emotion recognition based on knowledge distillation optimized residual networks. , 2022, , .		1
462	Data augmentation for learning predictive models on EEG: a systematic comparison. Journal of Neural Engineering, 2022, 19, 066020.	1.8	12
463	End-to-end P300 BCI using Bayesian accumulation of Riemannian probabilities. Brain-Computer Interfaces, 0, , 1-12.	0.9	2
464	Brain Computer Interface: Deep Learning Approach to Predict Human Emotion Recognition. , 2022, , .		4
465	The Role of EEG-based Brain Computer Interface using Machine Learning Techniques: A Comparative Study. , 2022, , .		2
466	BrainActivity1: A Framework of EEG Data Collection and Machine Learning Analysis for College Students. Communications in Computer and Information Science, 2022, , 119-127.	0.4	1
467	EEGraph: An open-source Python library for modeling electroencephalograms using graphs. Neurocomputing, 2023, 519, 127-134.	3.5	3
468	Relation Learning Using Temporal Episodes for Motor Imagery Brain-Computer Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2023, 31, 530-543.	2.7	3
469	Bandwidth-Efficient Distributed Neural Network Architectures With Application to Neuro-Sensor Networks. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 933-943.	3.9	4
470	Going Beyond Accuracy: Interpretability Metrics for CNN Representations of Physiological Signals. , 2022, , .		0
471	Personalized Sleep State Classification via Learned Factor Graphs. , 2022, , .		1
472	Eye State Detection from Electro-Encephalography Signals using Machine learning Techniques. , 2022, , .		0
473	Embedding neurophysiological signals. , 2022, , .		0
474	Multi frequency band fusion method for EEG signal classification. Signal, Image and Video Processing, 0, , .	1.7	0
475	Classification of P300 signals from P300 spelling system based on ASK-CNN model. , 2022, , .		0
476	A basic identification of late auditory evoked potentials at infrasound frequencies: Support vector machine-based signal processing. Journal of Low Frequency Noise Vibration and Active Control, 0, , 146134842211388.	1.3	0
477	EEG Signal Power Prediction Using DEAP Dataset. , 2022, , .		0
478	Single trial detection of error-related potentials in brain-machine interfaces: a survey and comparison of methods. Journal of Neural Engineering, 2023, 20, 016015.	1.8	2

#	ARTICLE	IF	CITATIONS
480	KI-basierte Interventionen in Psychiatrie und Psychotherapie. <i>Techno:Phil</i> , 2023, , 209-223.	0.3	0
481	Implementation of an Automatic EEG Feature Extraction with Gated Recurrent Neural Network for Emotion Recognition. <i>Lecture Notes in Electrical Engineering</i> , 2023, , 133-150.	0.3	1
482	Influence of Channel Selection and Subject's Age on the Performance of the Single Channel EEG-Based Automatic Sleep Staging Algorithms. <i>Sensors</i> , 2023, 23, 899.	2.1	1
483	Comparative Study of Neural Networks (G/C/RNN) and Traditional Machine Learning Models on EEG Datasets. <i>Cognitive Science and Technology</i> , 2023, , 163-177.	0.2	0
484	Auditory stimulation and deep learning predict awakening from coma after cardiac arrest. <i>Brain</i> , 2023, 146, 778-788.	3.7	7
485	Towards emotionally intelligent buildings: A Convolutional neural network based approach to classify human emotional experience in virtual built environments. <i>Advanced Engineering Informatics</i> , 2023, 55, 101868.	4.0	6
487	Robust Motor Imagery Tasks Classification Approach Using Bayesian Neural Network. <i>Sensors</i> , 2023, 23, 703.	2.1	3
488	Genetic algorithm for feature selection of EEG heterogeneous data. <i>Expert Systems With Applications</i> , 2023, 217, 119488.	4.4	7
489	Design of a Cascade Stacking Ensemble Algorithm Based on Multi-domain Feature Fusion of MI-EEG. , 2022, , .		1
490	Efficacy of novel attention-based gated recurrent units transformer for depression detection using electroencephalogram signals. <i>Health Information Science and Systems</i> , 2023, 11, .	3.4	6
491	A Review on Estimation of Workload from Electroencephalogram (EEG) Using Machine Learning. <i>Communications in Computer and Information Science</i> , 2022, , 255-264.	0.4	0
492	Center transfer for supervised domain adaptation. <i>Applied Intelligence</i> , 2023, 53, 18277-18293.	3.3	1
494	Computer-assisted analysis of routine electroencephalogram to identify hidden biomarkers of epilepsy: protocol for a systematic review. <i>BMJ Open</i> , 2023, 13, e066932.	0.8	1
495	A Siamese Network-Based Method for Improving the Performance of Sleep Staging with Single-Channel EEG. <i>Biomedicines</i> , 2023, 11, 327.	1.4	2
496	Deep learning methods for analysis of neural signals: From conventional neural network to graph neural network. , 2023, , 205-242.		0
497	Robin's Viewer: Using deep-learning predictions to assist EEG annotation. <i>Frontiers in Neuroinformatics</i> , 0, 16, .	1.3	0
498	Advancements in Measuring Cognition Using EEG and fNIRS. , 2023, , 1-39.		0
499	Deep Learning for AECoG Brain-Computer Interface: End-to-End vs. Hand-Crafted Features. <i>Lecture Notes in Computer Science</i> , 2023, , 358-373.	1.0	0

#	ARTICLE	IF	CITATIONS
500	Convolutional Neural Network with a Topographic Representation Module for EEG-Based Brain-Computer Interfaces. <i>Brain Sciences</i> , 2023, 13, 268.	1.1	1
501	Deep Learning-Based ECG Arrhythmia Classification: A Systematic Review. <i>Applied Sciences (Switzerland)</i> , 2023, 13, 4964.	1.3	15
502	On the Analyses of Medical Images Using Traditional Machine Learning Techniques and Convolutional Neural Networks. <i>Archives of Computational Methods in Engineering</i> , 2023, 30, 3173-3233.	6.0	16
504	Designing an XAI interface for BCI experts: A contextual design for pragmatic explanation interface based on domain knowledge in a specific context. <i>International Journal of Human Computer Studies</i> , 2023, 174, 103009.	3.7	5
505	Improving the performance of SSVEP-BCI contaminated by physiological noise via adversarial training. <i>Medicine in Novel Technology and Devices</i> , 2023, 18, 100213.	0.9	0
506	GLFANet: A global to local feature aggregation network for EEG emotion recognition. <i>Biomedical Signal Processing and Control</i> , 2023, 85, 104799.	3.5	19
507	Automatic detection of schizophrenia based on spatial-temporal feature mapping and LeViT with EEG signals. <i>Expert Systems With Applications</i> , 2023, 224, 119969.	4.4	3
508	An overview of deep learning techniques for COVID-19 detection: methods, challenges, and future works. <i>Multimedia Systems</i> , 2023, 29, 1603-1627.	3.0	7
509	Heart and brain traumatic stress biomarker analysis with and without machine learning: A scoping review. <i>International Journal of Psychophysiology</i> , 2023, 185, 27-49.	0.5	1
510	Cross-session Classification of Mental Workload Levels using Recurrent Neural Networks. , 2022, , .		2
511	An attention-based deep learning approach for the classification of subjective cognitive decline and mild cognitive impairment using resting-state EEG. <i>Journal of Neural Engineering</i> , 2023, 20, 016048.	1.8	13
512	Machine learning and deep learning in medicine and neuroimaging. , 2023, 1, 102-122.		4
513	Autism spectrum disorder prediction using bidirectional stacked gated recurrent unit with time-distributor wrapper: an EEG study. <i>Neural Computing and Applications</i> , 2023, 35, 9803-9818.	3.2	2
514	Classification of Motor Imagery EEG Signals Based on Data Augmentation and Convolutional Neural Networks. <i>Sensors</i> , 2023, 23, 1932.	2.1	7
515	Filter bank sinc-convolutional network with channel self-attention for high performance motor imagery decoding. <i>Journal of Neural Engineering</i> , 2023, 20, 026001.	1.8	8
516	A survey of deep learning-based classification methods for steady-state visual evoked potentials. , 2023, 2, .		1
517	Benchmarking performance of an automatic polysomnography scoring system in a population with suspected sleep disorders. <i>Frontiers in Neurology</i> , 0, 14, .	1.1	6
518	Deep Learning Assisted Biofeedback. , 2023, , 289-313.		0

#	ARTICLE	IF	CITATIONS
519	EEG-Based BCIs on Motor Imagery Paradigm Using Wearable Technologies: A Systematic Review. <i>Sensors</i> , 2023, 23, 2798.	2.1	5
520	Artificial Proprioceptive Reflex Warning Using EMG in Advanced Driving Assistance System. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2023, 31, 1635-1644.	2.7	2
521	An intelligent optimized deep learning model to achieve early prediction of epileptic seizures. <i>Biomedical Signal Processing and Control</i> , 2023, 84, 104798.	3.5	5
522	Using Data Augmentation to Improve EEG-Based Prediction of Emergency Braking Intention. , 2022, , .		0
523	An Analysis of Deep Learning Models in SSVEP-Based BCI: A Survey. <i>Brain Sciences</i> , 2023, 13, 483.	1.1	5
524	EEG-Based Emotion Recognition via Knowledge-Integrated Interpretable Method. <i>Mathematics</i> , 2023, 11, 1424.	1.1	2
525	Exploring Digital Biomarkers of Illness Activity in Mood Episodes: Hypotheses Generating and Model Development Study. <i>JMIR MHealth and UHealth</i> , 0, 11, e45405.	1.8	4
526	Decoding study-independent mind-wandering from EEG using convolutional neural networks. <i>Journal of Neural Engineering</i> , 2023, 20, 026024.	1.8	0
527	Deep learning-based EEG analysis to classify normal, mild cognitive impairment, and dementia: Algorithms and dataset. <i>NeuroImage</i> , 2023, 272, 120054.	2.1	4
528	Subject-Independent Classification of Brain Signals using Skip Connections. , 2023, , .		0
529	Review of public motor imagery and execution datasets in brain-computer interfaces. <i>Frontiers in Human Neuroscience</i> , 0, 17, .	1.0	0
531	Sleep-Energy: An Energy Optimization Method to Sleep Stage Scoring. <i>IEEE Access</i> , 2023, 11, 34595-34602.	2.6	0
532	Convolutional Neural Network-Based EEG Signal Analysis: A Systematic Review. <i>Archives of Computational Methods in Engineering</i> , 2023, 30, 3585-3615.	6.0	3
533	Emotion Recognition Using Temporally Localized Emotional Events in EEG With Naturalistic Context: DENS# Dataset. <i>IEEE Access</i> , 2023, 11, 39913-39925.	2.6	4
534	The Power of ECG in Semi-Automated Seizure Detection in Addition to Two-Channel behind-the-Ear EEG. <i>Bioengineering</i> , 2023, 10, 491.	1.6	2
549	Learning EKG Diagnostic Models with Hierarchical Class Label Dependencies. <i>Lecture Notes in Computer Science</i> , 2023, , 260-270.	1.0	0
554	Electroencephalogram Channel Selection using Deep Q-Network. , 2023, , .		0
555	Comparison of Cloud Computing and TinyML Methods for Brain-Computer Interface in Motor Imagery Problems. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
579	Two Heads Are Better Than One: A Bio-Inspired Method for Improving Classification on EEG-ET Data. Communications in Computer and Information Science, 2023, , 382-390.	0.4	0
590	GAN-based EEG Forecasting for Attaining Driving Operations. , 2023, , .		0
593	Improving Accuracy of Recommendation Systems with Deep Learning Models. Lecture Notes in Networks and Systems, 2023, , 795-806.	0.5	0
595	Emotion Recognition Based on Time-Frequency-Spatial Network of EEG Signals. , 2023, , .		0
598	A Drone Flight Control Using Brain Computer Interface and Artificial Intelligence. , 2022, , .		2
603	Quantitative measures of the resting EEG in stroke: a systematic review on clinical correlation and prognostic value. Neurological Sciences, 2023, 44, 4247-4261.	0.9	2
605	A Deep Learning Framework for the Classification of Pre-prodromal and Prodromal Alzheimer's Disease Using Resting-State EEG Signals. Smart Innovation, Systems and Technologies, 2023, , 93-101.	0.5	0
606	Attention based 1D-CNN for Mental Workload Classification using EEG. , 2023, , .		0
609	Advancements in Measuring Cognition Using EEG and fNIRS. , 2023, , 1879-1917.		0
610	EEG Classifier Using Wavelet Scattering Transform-Based Features and Deep Learning for Wheelchair Steering. , 2022, , .		1
612	A Comparative Evaluation and Analysis of Machine Learning Approaches for Predicting Breast Cancer. , 2023, , .		0
613	Low-Cost Brain-Computer Interface Design Using Deep Learning for Internet of Brain Controlled Things Applications. , 2022, , .		1
615	Decoding Emotion Dimensions Arousal and Valence Elicited on EEG Responses to Videos and Images: A Comparative Evaluation. Lecture Notes in Computer Science, 2023, , 71-82.	1.0	0
616	Bayesian Time-Series Classifier for Decoding Simple Visual Stimuli from Intracranial Neural Activity. Lecture Notes in Computer Science, 2023, , 227-238.	1.0	0
623	Deep Learning Techniques for Parkinson's Detection Using EEG Signals Analysis. , 2023, , .		1
639	Deep Learning-Based Diagnosis of Major Depressive Disorder Using Electroencephalography Signals. , 2023, , .		0
641	Chronologically Arranged Convolutional Gated Recurrent Network for EEG-Based Schizophrenia Detection. Lecture Notes in Computer Science, 2023, , 764-771.	1.0	0
647	Trends in Machine Learning and Electroencephalogram (EEG): A Review for Undergraduate Researchers. Lecture Notes in Computer Science, 2023, , 426-443.	1.0	0

#	ARTICLE	IF	CITATIONS
650	Decoding Individual and Shared Experiences of Media Perception Using CNN Architectures. Lecture Notes in Computer Science, 2024, , 182-196.	1.0	0
654	The Convergence of AI and BCIs. Advances in Computational Intelligence and Robotics Book Series, 2023, , 98-113.	0.4	0
657	Two-stage model for epileptic seizures detection on EEG recordings. , 2023, , .		0
658	Evaluation of neural response recorded using scalp EEG in virtual reality environment. , 2023, , .		0
661	Towards Analysis-aware EEG Compression in Wearable Computing. , 2023, , .		0
662	Development of digital mirror therapy for stroke-severe patients. , 2023, , .		0
665	Development of Smart Home System Based on EEG. , 2023, , 153-164.		0
666	Resting-State EEG Classification of Children and Adolescents Diagnosed With Major Depressive Disorder Using Convolutional Neural Networks. , 2023, , .		0
669	Deep Learning Models for Diagnosis of Schizophrenia Using EEG Signals: Emerging Trends, Challenges, and Prospects. Archives of Computational Methods in Engineering, 0, , .	6.0	1
672	Patient Independent Interictal Epileptiform Discharge Detection. , 2023, , .		1
673	Deep Neural Network Based Discrimination of Mental States During Real-Time Posture Yoga Using EEG. , 2023, , .		0
674	An EEG annotation system facilitating brain disease research. , 2023, , .		0
675	Deep Learning Techniques for EEG-Based BCI: Analysis and Applications. , 2023, , .		0
676	Secure Storage and Access Control for Personal and EEG Data using Blockchain. , 2023, , .		0
679	MEEG-Transformer: Transformer Network based on Multi-domain EEG for Emotion Recognition. , 2023, , .		0
680	Deep learning applied to EEG data with different montages using spatial attention. , 2023, , .		0
681	A Motor Imagery-based Lower Limb Rehabilitation Robot System. , 2023, , .		0
683	Improved Concentrated Mental State Classification Through EEG Signal Augmentation and One-Dimensional Convolutional Neural Network. Lecture Notes in Electrical Engineering, 2024, , 371-380.	0.3	0

#	ARTICLE	IF	CITATIONS
684	Generating Visually Evoked Potentials Using a Diffusion Probabilistic Model. , 2023, , .		0
685	Enhancing Subject-Independent EEG-Based Auditory Attention Decoding with WGAN and Pearson Correlation Coefficient. , 2023, , .		0
686	Explaining Convolutional Neural Networks for EEG-based Brain-Computer Interface Using Influence Functions. , 2023, , .		0
694	A Systematic Review With Recommendations on Intelligent Systems in Cognitive Healthcare. Advances in Medical Technologies and Clinical Practice Book Series, 2024, , 1-21.	0.3	0
695	On Channel Selection for EEG-Based Mental Workload Classification. Lecture Notes in Computer Science, 2024, , 403-417.	1.0	0
697	Enhancing Time Series Analysis with GNN Graph Classification Models. Studies in Computational Intelligence, 2024, , 25-36.	0.7	0