

# Seong-Whan Lee

## List of Publications by Year in descending order

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Version: 2024-02-01

329  
papers

11,140  
citations

34105

52  
h-index

43889

91  
g-index

331  
all docs

331  
docs citations

331  
times ranked

8370  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical feature representation and multimodal fusion with deep learning for AD/MCI diagnosis. <i>NeuroImage</i> , 2014, 101, 569-582.	4.2	732
2	Latent feature representation with stacked auto-encoder for AD/MCI diagnosis. <i>Brain Structure and Function</i> , 2015, 220, 841-859.	2.3	435
3	EEG dataset and OpenBMI toolbox for three BCI paradigms: an investigation into BCI illiteracy. <i>GigaScience</i> , 2019, 8, .	6.4	243
4	State-space model with deep learning for functional dynamics estimation in resting-state fMRI. <i>NeuroImage</i> , 2016, 129, 292-307.	4.2	242
5	Deep ensemble learning of sparse regression models for brain disease diagnosis. <i>Medical Image Analysis</i> , 2017, 37, 101-113.	11.6	226
6	A convolutional neural network for steady state visual evoked potential classification under ambulatory environment. <i>PLoS ONE</i> , 2017, 12, e0172578.	2.5	214
7	Subject-Independent Brain-Computer Interfaces Based on Deep Convolutional Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 3839-3852.	11.3	204
8	A Novel Bayesian Framework for Discriminative Feature Extraction in Brain-Computer Interfaces. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013, 35, 286-299.	13.9	201
9	Subspace Regularized Sparse Multitask Learning for Multiclass Neurodegenerative Disease Identification. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 607-618.	4.2	181
10	Sign Language Spotting with a Threshold Model Based on Conditional Random Fields. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2009, 31, 1264-1277.	13.9	180
11	Brain-Controlled Robotic Arm System Based on Multi-Directional CNN-BiLSTM Network Using EEG Signals. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 1226-1238.	4.9	177
12	A novel relational regularization feature selection method for joint regression and classification in AD diagnosis. <i>Medical Image Analysis</i> , 2017, 38, 205-214.	11.6	176
13	A SURVEY ON PATTERN RECOGNITION APPLICATIONS OF SUPPORT VECTOR MACHINES. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2003, 17, 459-486.	1.2	175
14	Human action recognition using shape and CLG-motion flow from multi-view image sequences. <i>Pattern Recognition</i> , 2008, 41, 2237-2252.	8.1	166
15	Hand gesture recognition based on dynamic Bayesian network framework. <i>Pattern Recognition</i> , 2010, 43, 3059-3072.	8.1	166
16	A lower limb exoskeleton control system based on steady state visual evoked potentials. <i>Journal of Neural Engineering</i> , 2015, 12, 056009.	3.5	163
17	Extraction of dynamic functional connectivity from brain grey matter and white matter for MCI classification. <i>Human Brain Mapping</i> , 2017, 38, 5019-5034.	3.6	151
18	Adaptive transfer learning for EEG motor imagery classification with deep Convolutional Neural Network. <i>Neural Networks</i> , 2021, 136, 1-10.	5.9	150

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19	AdaBoost for Text Detection in Natural Scene. , 2011, , .		141
20	A High-Security EEG-Based Login System with RSVP Stimuli and Dry Electrodes. IEEE Transactions on Information Forensics and Security, 2016, 11, 2635-2647.	6.9	131
21	A High Performance Spelling System based on EEG-EOG Signals With Visual Feedback. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1443-1459.	4.9	128
22	Deep sparse multi-task learning for feature selection in Alzheimer's disease diagnosis. Brain Structure and Function, 2016, 221, 2569-2587.	2.3	124
23	Gesture Spotting and Recognition for Human-Robot Interaction. , 2007, 23, 256-270.		123
24	Decoding Three-Dimensional Trajectory of Executed and Imagined Arm Movements From Electroencephalogram Signals. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 867-876.	4.9	119
25	Network Properties in Transitions of Consciousness during Propofol-induced Sedation. Scientific Reports, 2017, 7, 16791.	3.3	112
26	Commanding a Brain-Controlled Wheelchair Using Steady-State Somatosensory Evoked Potentials. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 654-665.	4.9	111
27	Off-line recognition of totally unconstrained handwritten numerals using multilayer cluster neural network. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1996, 18, 648-652.	13.9	110
28	Effect of higher frequency on the classification of steady-state visual evoked potentials. Journal of Neural Engineering, 2016, 13, 016014.	3.5	110
29	Detection of braking intention in diverse situations during simulated driving based on EEG feature combination. Journal of Neural Engineering, 2015, 12, 016001.	3.5	109
30	Nighttime face recognition at large standoff: Cross-distance and cross-spectral matching. Pattern Recognition, 2014, 47, 3750-3766.	8.1	107
31	Subject-dependent classification for robust idle state detection using multi-modal neuroimaging and data-fusion techniques in BCI. Pattern Recognition, 2015, 48, 2725-2737.	8.1	102
32	Hybrid High-order Functional Connectivity Networks Using Resting-state Functional MRI for Mild Cognitive Impairment Diagnosis. Scientific Reports, 2017, 7, 6530.	3.3	102
33	Strength and similarity guided group-level brain functional network construction for MCI diagnosis. Pattern Recognition, 2019, 88, 421-430.	8.1	101
34	Non-homogeneous spatial filter optimization for Electroencephalogram (EEG)-based motor imagery classification. Neurocomputing, 2013, 108, 58-68.	5.9	96
35	Person authentication from neural activity of face-specific visual self-representation. Pattern Recognition, 2013, 46, 1159-1169.	8.1	96
36	Reconstruction of partially damaged face images based on a morphable face model. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 365-372.	13.9	93

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37	Movement intention decoding based on deep learning for multiuser myoelectric interfaces. , 2016, , .		92
38	A new methodology for gray-scale character segmentation and recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1996, 18, 1045-1050.	13.9	89
39	Motion-Based Rapid Serial Visual Presentation for Gaze-Independent Brain-Computer Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 334-343.	4.9	88
40	Canonical feature selection for joint regression and multi-class identification in Alzheimer's disease diagnosis. Brain Imaging and Behavior, 2016, 10, 818-828.	2.1	85
41	A Robust Lane Detection Method Based on Vanishing Point Estimation Using the Relevance of Line Segments. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 3254-3266.	8.0	83
42	Decoding Movement-Related Cortical Potentials Based on Subject-Dependent and Section-Wise Spectral Filtering. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 687-698.	4.9	83
43	Subject and class specific frequency bands selection for multiclass motor imagery classification. International Journal of Imaging Systems and Technology, 2011, 21, 123-130.	4.1	80
44	An Efficient ERP-Based Brain-Computer Interface Using Random Set Presentation and Face Familiarity. PLoS ONE, 2014, 9, e111157.	2.5	79
45	HMM-based Human Action Recognition Using Multiview Image Sequences. , 2006, , .		75
46	Changes of Functional and Effective Connectivity in Smoking Replenishment on Deprived Heavy Smokers: A Resting-State fMRI Study. PLoS ONE, 2013, 8, e59331.	2.5	74
47	Conversion and time-to-conversion predictions of mild cognitive impairment using low-rank affinity pursuit denoising and matrix completion. Medical Image Analysis, 2018, 45, 68-82.	11.6	72
48	A Subject-Transfer Framework Based on Single-Trial EMG Analysis Using Convolutional Neural Networks. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 94-103.	4.9	72
49	View-independent human action recognition with Volume Motion Template on single stereo camera. Pattern Recognition Letters, 2010, 31, 639-647.	4.2	65
50	A self-organizing neural tree for large-set pattern classification. IEEE Transactions on Neural Networks, 1998, 9, 369-380.	4.2	64
51	Connectivity differences between consciousness and unconsciousness in non-rapid eye movement sleep: a TMS-EEG study. Scientific Reports, 2019, 9, 5175.	3.3	64
52	Reconstruction of 3D human body pose from stereo image sequences based on top-down learning. Pattern Recognition, 2007, 40, 3120-3131.	8.1	62
53	Predicting BCI Subject Performance Using Probabilistic Spatio-Temporal Filters. PLoS ONE, 2014, 9, e87056.	2.5	62
54	Motion Influence Map for Unusual Human Activity Detection and Localization in Crowded Scenes. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 1612-1623.	8.3	57

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55	Accurate object contour tracking based on boundary edge selection. <i>Pattern Recognition</i> , 2007, 40, 931-943.	8.1	56
56	A Novel Linelet-Based Representation for Line Segment Detection. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018, 40, 1195-1208.	13.9	55
57	Spatio-Spectral Feature Representation for Motor Imagery Classification Using Convolutional Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022, 33, 3038-3049.	11.3	55
58	A new recurrent neural-network architecture for visual pattern recognition. <i>IEEE Transactions on Neural Networks</i> , 1997, 8, 331-340.	4.2	52
59	Face Tracking and Recognition at a Distance: A Coaxial and Concentric PTZ Camera System. <i>IEEE Transactions on Information Forensics and Security</i> , 2013, 8, 1665-1677.	6.9	52
60	Neural Decoding of Imagined Speech and Visual Imagery as Intuitive Paradigms for BCI Communication. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 2647-2659.	4.9	52
61	Possible Effect of Binaural Beat Combined With Autonomous Sensory Meridian Response for Inducing Sleep. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 425.	2.0	50
62	Integrated segmentation and recognition of handwritten numerals with cascade neural network. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 1999, 29, 285-290.	2.9	49
63	TRANSLATION-, ROTATION- AND SCALE- INVARIANT RECOGNITION OF HAND-DRAWN SYMBOLS IN SCHEMATIC DIAGRAMS. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 1990, 04, 1-25.	1.2	48
64	Discriminative context learning with gated recurrent unit for group activity recognition. <i>Pattern Recognition</i> , 2018, 76, 149-161.	8.1	47
65	Enhancing the representation of functional connectivity networks by fusing multi-view information for autism spectrum disorder diagnosis. <i>Human Brain Mapping</i> , 2019, 40, 833-854.	3.6	47
66	Continuous EEG Decoding of Pilots'™ Mental States Using Multiple Feature Block-Based Convolutional Neural Network. <i>IEEE Access</i> , 2020, 8, 121929-121941.	4.2	45
67	Supervised Discriminative Group Sparse Representation for Mild Cognitive Impairment Diagnosis. <i>Neuroinformatics</i> , 2015, 13, 277-295.	2.8	44
68	Classification of Drowsiness Levels Based on a Deep Spatio-Temporal Convolutional Bidirectional LSTM Network Using Electroencephalography Signals. <i>Brain Sciences</i> , 2019, 9, 348.	2.3	44
69	Diagnosis of Autism Spectrum Disorder Using Central-Moment Features From Low- and High-Order Dynamic Resting-State Functional Connectivity Networks. <i>Frontiers in Neuroscience</i> , 2020, 14, 258.	2.8	44
70	Towards an EEG-based Intuitive BCI Communication System Using Imagined Speech and Visual Imagery. , 2019, , .		43
71	Weighted graph regularized sparse brain network construction for MCI identification. <i>Pattern Recognition</i> , 2019, 90, 220-231.	8.1	43
72	Error Correction Regression Framework for Enhancing the Decoding Accuracies of Ear-EEG Brain-Computer Interfaces. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 3654-3667.	9.5	43

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73	An adaptive deep reinforcement learning framework enables curling robots with human-like performance in real-world conditions. <i>Science Robotics</i> , 2020, 5, .	17.6	42
74	Multiple functional networks modeling for autism spectrum disorder diagnosis. <i>Human Brain Mapping</i> , 2017, 38, 5804-5821.	3.6	41
75	Classification of pilotsâ€™ mental states using a multimodal deep learning network. <i>Biocybernetics and Biomedical Engineering</i> , 2020, 40, 324-336.	5.9	41
76	Improved image registration by sparse patch-based deformation estimation. <i>NeuroImage</i> , 2015, 105, 257-268.	4.2	40
77	A Framework for Schizophrenia EEG Signal Classification With Nature Inspired Optimization Algorithms. <i>IEEE Access</i> , 2020, 8, 39875-39897.	4.2	40
78	Robust sign language recognition by combining manual and non-manual features based on conditional random field and support vector machine. <i>Pattern Recognition Letters</i> , 2013, 34, 2051-2056.	4.2	39
79	Leveraging Coupled Interaction for Multimodal Alzheimerâ€™s Disease Diagnosis. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 186-200.	11.3	39
80	Uncertainty-Aware Mesh Decoder for High Fidelity 3D Face Reconstruction. , 2020, , .		39
81	Tracking non-rigid objects using probabilistic Hausdorff distance matching. <i>Pattern Recognition</i> , 2005, 38, 2373-2384.	8.1	36
82	Adaptive occlusion state estimation for human pose tracking under self-occlusions. <i>Pattern Recognition</i> , 2013, 46, 649-661.	8.1	36
83	Abstract Representations of Associated Emotions in the Human Brain. <i>Journal of Neuroscience</i> , 2015, 35, 5655-5663.	3.6	36
84	Reduced White Matter Integrity in Antisocial Personality Disorder: A Diffusion Tensor Imaging Study. <i>Scientific Reports</i> , 2017, 7, 43002.	3.3	36
85	Few-Shot Learning With Geometric Constraints. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 4660-4672.	11.3	36
86	Predicting Motor Imagery Performance From Resting-State EEG Using Dynamic Causal Modeling. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 321.	2.0	36
87	Subclass-based multi-task learning for Alzheimer's disease diagnosis. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 168.	3.4	35
88	Multimodal signal dataset for 11 intuitive movement tasks from single upper extremity during multiple recording sessions. <i>GigaScience</i> , 2020, 9, .	6.4	35
89	Cascaded MultiTask 3-D Fully Convolutional Networks for Pancreas Segmentation. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 2153-2165.	9.5	34
90	Human Action Recognition Using Multi-View Image Sequences Features. , 0, , .		31

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91	A Hierarchical Feature and Sample Selection Framework and Its Application for Alzheimer's Disease Diagnosis. Scientific Reports, 2017, 7, 45269.	3.3	31
92	Hierarchical High-Order Functional Connectivity Networks and Selective Feature Fusion for MCI Classification. Neuroinformatics, 2017, 15, 271-284.	2.8	31
93	LVQ combined with simulated annealing for optimal design of large-set reference models. Neural Networks, 1996, 9, 329-336.	5.9	29
94	Leaf-inspired homeostatic cellulose biosensors. Science Advances, 2021, 7, .	10.3	29
95	Quantifying arousal and awareness in altered states of consciousness using interpretable deep learning. Nature Communications, 2022, 13, 1064.	12.8	29
96	EEG Classification of Forearm Movement Imagery Using a Hierarchical Flow Convolutional Neural Network. IEEE Access, 2020, 8, 66941-66950.	4.2	28
97	Spatio-temporal dynamics of multimodal EEG-fNIRS signals in the loss and recovery of consciousness under sedation using midazolam and propofol. PLoS ONE, 2017, 12, e0187743.	2.5	27
98	Automatic brain labeling via multi-atlas guided fully convolutional networks. Medical Image Analysis, 2019, 51, 157-168.	11.6	27
99	Frontal EEG Asymmetry of Emotion for the Same Auditory Stimulus. IEEE Access, 2020, 8, 107200-107213.	4.2	27
100	Individual Identification Using Cognitive Electroencephalographic Neurodynamics. IEEE Transactions on Information Forensics and Security, 2017, 12, 2159-2167.	6.9	26
101	Compositional interaction descriptor for human interaction recognition. Neurocomputing, 2017, 267, 169-181.	5.9	26
102	Classification of Hand Motions within EEG Signals for Non-Invasive BCI-Based Robot Hand Control. , 2018, , .		26
103	A Two-Stream Symmetric Network with Bidirectional Ensemble for Aerial Image Matching. Remote Sensing, 2020, 12, 465.	4.0	26
104	A Network of Dynamic Probabilistic Models for Human Interaction Analysis. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 932-945.	8.3	25
105	Reduced cortical thickness and increased surface area in antisocial personality disorder. Neuroscience, 2016, 337, 143-152.	2.3	25
106	Robust brain ROI segmentation by deformation regression and deformable shape model. Medical Image Analysis, 2018, 43, 198-213.	11.6	25
107	Group Activity Recognition with Group Interaction Zone Based on Relative Distance Between Human Objects. International Journal of Pattern Recognition and Artificial Intelligence, 2015, 29, 1555007.	1.2	24
108	Metaheuristic-Based Dimensionality Reduction and Classification Analysis of PPG Signals for Interpreting Cardiovascular Disease. IEEE Access, 2019, 7, 165181-165206.	4.2	24

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109	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.	9.5	24
110	Trajectory Decoding of Arm Reaching Movement Imageries for Brain-Controlled Robot Arm System. , 2019, 2019, 5544-5547.		23
111	Self-augmentation: Generalizing deep networks to unseen classes for few-shot learning. Neural Networks, 2021, 138, 140-149.	5.9	23
112	Complete Face Recovery GAN: Unsupervised Joint Face Rotation and De-Occlusion from a Single-View Image. , 2022, , .		23
113	Prediction of partially observed human activity based on pre-trained deep representation. Pattern Recognition, 2019, 85, 198-206.	8.1	22
114	Nighttime Face Recognition at Long Distance: Cross-Distance and Cross-Spectral Matching. Lecture Notes in Computer Science, 2013, , 708-721.	1.3	22
115	Motor Imagery Classification Using Inter-Task Transfer Learning via a Channel-Wise Variational Autoencoder-Based Convolutional Neural Network. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 226-237.	4.9	22
116	Multiresolution recognition of handwritten numerals with wavelet transform and multilayer cluster neural network. , 0, , .		21
117	Qualitative estimation of camera motion parameters from the linear composition of optical flow. Pattern Recognition, 2004, 37, 767-779.	8.1	21
118	A Full-Body Gesture Database for Automatic Gesture Recognition. , 0, , .		21
119	<i>WeDea:</i> A New EEG-Based Framework for Emotion Recognition. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 264-275.	6.3	21
120	Design of a robotic wheelchair with a motor imagery based brain-computer interface. , 2013, , .		20
121	A Real-Time Movement Artifact Removal Method for Ambulatory Brain-Computer Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2660-2670.	4.9	20
122	Toward exoskeleton control based on steady state visual evoked potentials. , 2014, , .		19
123	Transformation Based Tri-Level Feature Selection Approach Using Wavelets and Swarm Computing for Prostate Cancer Classification. IEEE Access, 2020, 8, 127462-127476.	4.2	19
124	REAL-TIME PEDESTRIAN DETECTION USING SUPPORT VECTOR MACHINES. International Journal of Pattern Recognition and Artificial Intelligence, 2003, 17, 405-416.	1.2	18
125	Interactive Multiple Object Tracking (iMOT). PLoS ONE, 2014, 9, e86974.	2.5	18
126	Towards Brain-Computer Interfaces for Drone Swarm Control. , 2020, , .		18



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127	Brain Computer Interfacing: A Multi-Modal Perspective. Journal of Computing Science and Engineering, 2013, 7, 132-138.	0.6	18
128	Real-time 3D pointing gesture recognition in mobile space. , 2008, , .		17
129	Recognizing hand gestures using dynamic Bayesian network. , 2008, , .		17
130	Hybrid brain-computer interface based on EEG and NIRS modalities. , 2014, , .		17
131	EEG Representation in Deep Convolutional Neural Networks for Classification of Motor Imagery. , 2019, , .		17
132	An Integrated Approach for Ovarian Cancer Classification With the Application of Stochastic Optimization. IEEE Access, 2020, 8, 127866-127882.	4.2	17
133	Decoding Imagined Speech Based on Deep Metric Learning for Intuitive BCI Communication. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1363-1374.	4.9	17
134	PERFORMANCE ANALYSIS OF FACE RECOGNITION ALGORITHMS ON KOREAN FACE DATABASE. International Journal of Pattern Recognition and Artificial Intelligence, 2007, 21, 1017-1033.	1.2	16
135	Development of an open source platform for brain-machine interface: openBMI. , 2016, , .		16
136	Classification of motor imagery for Ear-EEG based brain-computer interface. , 2018, , .		16
137	Mental fatigue in central-field and peripheral-field steady-state visually evoked potential and its effects on event-related potential responses. NeuroReport, 2018, 29, 1301-1308.	1.2	16
138	Spatial reasoning for few-shot object detection. Pattern Recognition, 2021, 120, 108118.	8.1	16
139	Face reconstruction from a small number of feature points. , 0, , .		15
140	Decoding of Multi-directional Reaching Movements for EEG-Based Robot Arm Control. , 2018, , .		15
141	SessionNet: Feature Similarity-Based Weighted Ensemble Learning for Motor Imagery Classification. IEEE Access, 2020, 8, 134524-134535.	4.2	15
142	A novel online action detection framework from untrimmed video streams. Pattern Recognition, 2020, 106, 107396.	8.1	15
143	Coarse-to-Fine Deep Metric Learning for Remote Sensing Image Retrieval. Remote Sensing, 2020, 12, 219.	4.0	14
144	Visual question answering based on local-scene-aware referring expression generation. Neural Networks, 2021, 139, 158-167.	5.9	14

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145	Constructing Multi-View High-Order Functional Connectivity Networks for Diagnosis of Autism Spectrum Disorder. IEEE Transactions on Biomedical Engineering, 2022, 69, 1237-1250.	4.2	14
146	Bio and health informatics meets cloud : BioVLab as an example. Health Information Science and Systems, 2013, 1, 6.	5.2	13
147	Human gesture recognition using a simplified dynamic Bayesian network. Multimedia Systems, 2015, 21, 557-568.	4.7	13
148	Changes in Fatigue and EEG Amplitude during a Longtime Use of Brain-Computer Interface. , 2019, , .		13
149	A brain-computer interface speller using peripheral stimulus-based SSVEP and P300. , 2017, , .		12
150	Single-trial analysis of readiness potentials for lower limb exoskeleton control. , 2017, , .		12
151	A Robust Matching Network for Gradually Estimating Geometric Transformation on Remote Sensing Imagery. , 2019, , .		12
152	Discriminative self-representation sparse regression for neuroimaging-based alzheimerâ€™s disease diagnosis. Brain Imaging and Behavior, 2019, 13, 27-40.	2.1	12
153	Classification of High-Dimensional Motor Imagery Tasks Based on An End-To-End Role Assigned Convolutional Neural Network. , 2020, , .		12
154	Mammographic mass segmentation using multichannel and multiscale fully convolutional networks. International Journal of Imaging Systems and Technology, 2020, 30, 1095-1107.	4.1	12
155	Human interaction recognition framework based on interacting body part attention. Pattern Recognition, 2022, 128, 108645.	8.1	12
156	A 2-D HMM METHOD FOR OFFLINE HANDWRITTEN CHARACTER RECOGNITION. International Journal of Pattern Recognition and Artificial Intelligence, 2001, 15, 91-105.	1.2	11
157	Combination of manual and non-manual features for sign language recognition based on conditional random field and active appearance model. , 2011, , .		11
158	Group Activity Recognition with Group Interaction Zone. , 2014, , .		11
159	A Hybrid of Deep Network and Hidden Markov Model for MCI Identification with Resting-State fMRI. Lecture Notes in Computer Science, 2015, 9349, 573-580.	1.3	11
160	Towards an EEG-based intelligent wheelchair driving system with vibro-tactile stimuli. , 2016, , .		11
161	Oblique aerial image matching based on iterative simulation and homography evaluation. Pattern Recognition, 2019, 87, 317-331.	8.1	11
162	Automatic Approach for EEG-Based Multiple Emotional State Identification. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1508-1518.	6.3	11

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163	Design of an EEG-based Drone Swarm Control System using Endogenous BCI Paradigms. , 2021, , .		11
164	A new type of recurrent neural network for handwritten character recognition. , 0, , .		10
165	MULTIPLE HUMAN DETECTION AND TRACKING BASED ON WEIGHTED TEMPORAL TEXTURE FEATURES. International Journal of Pattern Recognition and Artificial Intelligence, 2006, 20, 377-391.	1.2	10
166	Recognizing human actions based on silhouette energy image and global motion description. , 2008, , .		10
167	Detection of multi-class emergency situations during simulated driving from ERP. , 2013, , .		10
168	Reconstruction of hand movements from EEG signals based on non-linear regression. , 2014, , .		10
169	Design of a brain-controlled robot arm system based on upper-limb movement imagery. , 2018, , .		10
170	Parameter Estimation Using Unscented Kalman Filter on the Gray-Box Model for Dynamic EEG System Modeling. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6175-6185.	4.7	10
171	A Novel Approach to Classify Natural Grasp Actions by Estimating Muscle Activity Patterns from EEG Signals. , 2020, , .		10
172	SASDL and RBATQ: Sparse Autoencoder With Swarm Based Deep Learning and Reinforcement Based Q-Learning for EEG Classification. IEEE Open Journal of Engineering in Medicine and Biology, 2022, 3, 58-68.	2.3	10
173	Mobile BCI dataset of scalp- and ear-EEGs with ERP and SSVEP paradigms while standing, walking, and running. Scientific Data, 2021, 8, 315.	5.3	10
174	An HMMRF-based statistical approach for off-line handwritten character recognition. , 1996, , .		9
175	NFRAD: Near-Infrared Face Recognition at a Distance. , 2011, , .		9
176	Non-homogeneous spatial filter optimization for EEG-based brain-computer interfaces. , 2013, , .		9
177	Classifying directions in continuous arm movement from EEG signals. , 2015, , .		9
178	Change in functional networks for transitions between states of consciousness during midazolam-induced sedation. , 2017, 2017, 958-961.		9
179	Spatio-temporal analysis of EEG signal during consciousness using convolutional neural network. , 2018, , .		9
180	A Comprehensive Analysis of Alcoholic EEG Signals with Detrend Fluctuation Analysis and Post Classifiers. , 2019, , .		9

#	ARTICLE	IF	CITATIONS
181	Inter-Network High-Order Functional Connectivity (IN-HOFC) and its Alteration in Patients with Mild Cognitive Impairment. <i>Neuroinformatics</i> , 2019, 17, 547-561.	2.8	9
182	Decoding Movement Imagination and Execution From Eeg Signals Using Bci-Transfer Learning Method Based on Relation Network. , 2020, , .		9
183	Classification of Imagined Speech Using Siamese Neural Network. , 2020, , .		9
184	Improved Sparse Representation based Robust Hybrid Feature Extraction Models with Transfer and Deep Learning for EEG Classification. <i>Expert Systems With Applications</i> , 2022, 198, 116783.	7.6	9
185	A real-time color-based object tracking robust to irregular illumination variations. , 0, , .		8
186	COMBINATION OF MULTIPLE CLASSIFIERS BY MINIMIZING THE UPPER BOUND OF BAYES ERROR RATE FOR UNCONSTRAINED HANDWRITTEN NUMERAL RECOGNITION. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2005, 19, 395-413.	1.2	8
187	Two-Layer Hidden Markov Models for Multi-class Motor Imagery Classification. , 2010, , .		8
188	Three-dimensional upper limb movement decoding from EEG signals. , 2013, , .		8
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