

# EEG-based neuroprosthesis control: A step towards clinical

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Citation Report

#	ARTICLE	IF	CITATIONS
1	An Unified Built in Self-Test Scheme : UBIST. , 1986, , .		21
2	Characterization of tLIFE Neural Response for the Control of a Cybernetic Hand. , 2006, , .		17
3	Assessment of EEG event-related desynchronization in stroke survivors performing shoulder-elbow movements. , 0, , .		10
4	Beyond mind-reading: multi-voxel pattern analysis of fMRI data. Trends in Cognitive Sciences, 2006, 10, 424-430.	4.0	2,083
5	Neuronal ensemble control of prosthetic devices by a human with tetraplegia. Nature, 2006, 442, 164-171.	13.7	2,979
7	15 years of BCI research at graz university of technology: current projects. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 205-210.	2.7	145
8	Could cortical signals control intraspinal stimulators? A theoretical evaluation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 198-201.	2.7	11
9	BCI meeting 2005-workshop on clinical issues and applications. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 131-134.	2.7	113
10	Regelungs- und Steuerungskonzepte für Neuroprothesen am Beispiel der oberen Extremitäten (Closed-) Tj ETQq0 0 0 rgBT /Overlock Automatisierungstechnik, 2006, 54, 523-536.	0.4	1
11	Brain-computer interfaces for control of neuroprotheses: from synchronous to asynchronous mode of operation / Brain-Computer Interfaces zur Steuerung von Neuroprothesen: von der synchronen zur asynchronen Funktionsweise. Biomedizinische Technik, 2006, 51, 57-63.	0.9	77
12	Zeitvariante Klassifikatoren zur Steuerung von Brain Machine Interfaces und Neuroprothesen (Time-variant Classifiers to Control Brain Machine Interfaces and Neuroprotheses). Automatisierungstechnik, 2006, 54, 537-545.	0.4	0
13	Neuroprosthetics of the upper extremity " clinical application in spinal cord injury and challenges for the future. , 2007, 97, 419-426.		30
14	Motor imagery and EEG-based control of spelling devices and neuroprotheses. Progress in Brain Research, 2006, 159, 393-409.	0.9	163
16	Self-Paced (Asynchronous) BCI Control of a Wheelchair in Virtual Environments: A Case Study with a Tetraplegic. Computational Intelligence and Neuroscience, 2007, 2007, 1-8.	1.1	353
17	Motor Imagery in Physical Therapist Practice. Physical Therapy, 2007, 87, 942-953.	1.1	282
18	Non-Invasive Brain-Computer Interface System to Operate Assistive Devices. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2532-5.	0.5	3
19	Identification of arm movements using correlation of electrocorticographic spectral components and kinematic recordings. Journal of Neural Engineering, 2007, 4, 146-158.	1.8	27
20	EMG and EOG artifacts in brain computer interface systems: A survey. Clinical Neurophysiology, 2007, 118, 480-494.	0.7	498

#	ARTICLE	IF	CITATIONS
21	Brain-computer interface systems: progress and prospects. <i>Expert Review of Medical Devices</i> , 2007, 4, 463-474.	1.4	328
22	A survey of signal processing algorithms in brain-computer interfaces based on electrical brain signals. <i>Journal of Neural Engineering</i> , 2007, 4, R32-R57.	1.8	714
24	An Image-based Brain-Computer Interface Using the P3 Response. , 2007, , .		5
25	Evolutionary optimization of classifiers and features for single-trial EEG Discrimination. <i>BioMedical Engineering OnLine</i> , 2007, 6, 32.	1.3	24
26	The Self-Paced Graz Brain-Computer Interface: Methods and Applications. <i>Computational Intelligence and Neuroscience</i> , 2007, 2007, 1-9.	1.1	74
28	Event-related beta EEG-changes during passive and attempted foot movements in paraplegic patients. <i>Brain Research</i> , 2007, 1137, 84-91.	1.1	162
29	A Comprehensive Survey of Brain Interface Technology Designs. <i>Annals of Biomedical Engineering</i> , 2007, 35, 137-169.	1.3	239
31	Role of electrical stimulation for rehabilitation and regeneration after spinal cord injury: an overview. <i>European Spine Journal</i> , 2008, 17, 1256-1269.	1.0	182
32	Defining brain-machine interface applications by matching interface performance with device requirements. <i>Journal of Neuroscience Methods</i> , 2008, 167, 91-104.	1.3	70
33	The Development of Brain-Machine Interface Neuroprosthetic Devices. <i>Neurotherapeutics</i> , 2008, 5, 137-146.	2.1	100
34	Control of an Electrical Prosthesis With an SSVEP-Based BCI. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 361-364.	2.5	507
35	Brain-Computer Interface Operation of Robotic and Prosthetic Devices. <i>Computer</i> , 2008, 41, 52-56.	1.2	155
36	P300-Based BCI Mouse With Genetically-Optimized Analogue Control. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2008, 16, 51-61.	2.7	134
37	On the Use of Longitudinal Intrafascicular Peripheral Interfaces for the Control of Cybernetic Hand Prostheses in Amputees. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2008, 16, 453-472.	2.7	106
38	Brain-computer interfaces in neurological rehabilitation. <i>Lancet Neurology</i> , The, 2008, 7, 1032-1043.	4.9	954
39	Quasi-movements: A novel motor-cognitive phenomenon. <i>Neuropsychologia</i> , 2008, 46, 727-742.	0.7	95
40	Brain-computer interfaces and communication in paralysis: Extinction of goal directed thinking in completely paralysed patients?. <i>Clinical Neurophysiology</i> , 2008, 119, 2658-2666.	0.7	437
41	Emulation of computer mouse control with a noninvasive brain-computer interface. <i>Journal of Neural Engineering</i> , 2008, 5, 101-110.	1.8	181

#	ARTICLE	IF	CITATIONS
42	Neuromodulación quirúrgica. Nuevos horizontes en Neurocirugía. Neurocirugía, 2008, 19, 143-155.	0.2	1
43	Toward Self-Paced Brain-Computer Communication: Navigation Through Virtual Worlds. IEEE Transactions on Biomedical Engineering, 2008, 55, 675-682.	2.5	186
44	The Impact of Neurotechnology on Rehabilitation. IEEE Reviews in Biomedical Engineering, 2008, 1, 157-197.	13.1	19
45	Non-invasive brain-computer interface system: Towards its application as assistive technology. Brain Research Bulletin, 2008, 75, 796-803.	1.4	250
46	Graz Brain-Computer Interface: Control of neuroprostheses for the upper extremity. , 2008, , .		0
47	Rapid Prototyping for Functional Electrical Stimulation Control. IEEE Pervasive Computing, 2008, 7, 62-69.	1.1	1
48	Takagi-Sugeno-Kang Fuzzy Classifiers for a Special Class of Time-Varying Systems. IEEE Transactions on Fuzzy Systems, 2008, 16, 1038-1049.	6.5	8
49	ERS and ERD analysis during the imaginary movement of arms. , 2008, , .		11
50	An on-line BCI for control of hand grasp sequence and holding using adaptive probabilistic neural network. , 2008, 2008, 1009-12.		8
51	Non-invasive Brain-Computer Interfaces for Semi-autonomous Assistive Devices. , 2008, , 113-138.		19
52	A clinical evaluation of non-invasive motor imagery-based brain-computer interface in stroke. , 2008, 2008, 4178-81.		18
53	Electroencephalogram (EEG) and Functional Electrical Stimulation (FES) System for Rehabilitation of Stroke Patients. , 2008, , .		8
54	Pilot Protection Systems. , 2009, , .		0
55	Electroencephalography (EEG). , 2009, , 849-855.		5
56	Adaptive estimation of EEG-rhythms for event classification. , 2009, , .		0
57	On the control of a robot hand by extracting neural signals from the PNS: Preliminary results from a human implantation. , 2009, 2009, 4586-9.		12
58	The Assessment of EEG in Patients with Spinal Cord Injury to Movements. , 2009, , .		2
59	Neurofeedback Training for BCI Control. The Frontiers Collection, 2009, , 65-78.	0.1	45

#	ARTICLE	IF	CITATIONS
60	Chapter 9 Flexibility and Practicality. International Review of Neurobiology, 2009, 86, 119-131.	0.9	21
61	Editorial: Developing the Next Generation of Hybrid Neuroprosthetic Systems. IEEE Transactions on Biomedical Engineering, 2009, 56, 3-5.	2.5	5
62	Command of a simulated wheelchair on a virtual environment using a brain-computer interface. Irbm, 2009, 30, 218-225.	3.7	29
63	Clinical Applications of Brain-Computer Interfaces: Current State and Future Prospects. IEEE Reviews in Biomedical Engineering, 2009, 2, 187-199.	13.1	386
64	Motor imagery and action observation: Modulation of sensorimotor brain rhythms during mental control of a brain-computer interface. Clinical Neurophysiology, 2009, 120, 239-247.	0.7	354
65	Brain-Computer Interfaces for Communication in Paralysed Patients and Implications for Disorders of Consciousness. , 2009, , 217-233.		22
66	Non-invasive control of neuroprostheses for the upper extremity: Temporal coding of brain patterns. , 2009, 2009, 3353-6.		8
67	EEG-based brain-computer communication. , 2010, , 203-212.		3
68	Combining brain-computer interfaces and assistive technologies: state-of-the-art and challenges. Frontiers in Neuroscience, 2010, 1, .	1.4	476
69	Discrimination of left and right leg motor imagery for brain-computer interfaces. Medical and Biological Engineering and Computing, 2010, 48, 343-350.	1.6	31
70	An SSVEP-Based Brain-Computer Interface for the Control of Functional Electrical Stimulation. IEEE Transactions on Biomedical Engineering, 2010, 57, 1847-1855.	2.5	59
71	Discreet Discrete Commands for Assistive and Neuroprosthetic Devices. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 236-244.	2.7	13
72	Invasive or Noninvasive: Understanding Brain-Machine Interface Technology [Conversations in BME. IEEE Engineering in Medicine and Biology Magazine, 2010, 29, 16-22.	1.1	91
73	Change in brain activity through virtual reality-based brain-machine communication in a chronic tetraplegic subject with muscular dystrophy. BMC Neuroscience, 2010, 11, 117.	0.8	44
74	An online EEG-based brain-computer interface for controlling hand grasp using an adaptive probabilistic neural network. Medical Engineering and Physics, 2010, 32, 730-739.	0.8	97
75	Bilateral adaptation and neurofeedback for brain computer interface system. Journal of Neuroscience Methods, 2010, 193, 373-379.	1.3	77
76	A Soft Admission Control methodology for wireless Ad-Hoc networks: Evaluating the impact on existing flows before admission. , 2010, , .		1
77	Temporal coding of brain patterns for direct limb control in humans. Frontiers in Neuroscience, 2010, 4, .	1.4	48

#	ARTICLE	IF	CITATIONS
78	An independent brain-computer interface using covert non-spatial visual selective attention. Journal of Neural Engineering, 2010, 7, 016010.	1.8	104
79	EEG-based Brain-Computer Interfaces: An Overview of Basic Concepts and Clinical Applications in Neurorehabilitation. Reviews in the Neurosciences, 2010, 21, 451-68.	1.4	94
80	Asynchronous steady-state visual evoked potential based BCI control of a 2-DoF artificial upper limb. Biomedizinische Technik, 2010, 55, 367-374.	0.9	16
81	Towards natural non-invasive hand neuroprostheses for daily living. , 2010, 2010, 126-9.		37
82	Brain-Computer Interfaces for the Operation of Robotic and Prosthetic Devices. Advances in Computers, 2010, 79, 169-187.	1.2	24
83	Review of Wireless and Wearable Electroencephalogram Systems and Brain-Computer Interfaces - A Mini-Review. Gerontology, 2010, 56, 112-119.	1.4	104
84	Statistical Pattern Recognition and Machine Learning in Brain-Computer Interfaces. , 2010, , 335-367.		11
85	EEG feature extraction and pattern classification based on motor imagery in brain-computer interface. , 2010, , .		7
86	Brain-Computer Interfaces. The Frontiers Collection, 2010, , .	0.1	192
87	Accuracy of a P300 speller for people with motor impairments. , 2011, , .		8
88	Towards hierarchical BCIs for robotic control. , 2011, , .		8
89	The research of brain-computer interface based on AAR parameters and neural networks classifier. , 2011, , .		4
91	Technical Rebuilding of Movement Function Using Functional Electrical Stimulation. Biological and Medical Physics Series, 2011, , 219-247.	0.3	3
92	Neural Interfaces for Control of Upper Limb Prostheses: The State of the Art and Future Possibilities. PM and R, 2011, 3, 55-67.	0.9	148
93	EEG Feature Extraction and Pattern Classification Based on Motor Imagery in Brain-Computer Interface. International Journal of Software Science and Computational Intelligence, 2011, 3, 43-56.	1.8	3
94	Event-related (De)synchronization (ERD/ERS) during motor imagery tasks: Implications for brain-computer interfaces. International Journal of Industrial Ergonomics, 2011, 41, 428-436.	1.5	119
95	An SSVEP BCI to Control a Hand Orthosis for Persons With Tetraplegia. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2011, 19, 1-5.	2.7	304
96	Using a SSVEP-BCI to command a robotic wheelchair. , 2011, , .		39

#	ARTICLE	IF	CITATIONS
97	Evaluation of fractal dimension estimation methods for feature extraction in motor imagery based brain computer interface. <i>Procedia Computer Science</i> , 2011, 3, 589-594.	1.2	25
98	Combined motor imagery and SSVEP based BCI control of a 2 DoF artificial upper limb. <i>Medical and Biological Engineering and Computing</i> , 2011, 49, 567-577.	1.6	126
99	A comparison of univariate, vector, bilinear autoregressive, and band power features for brain-computer interfaces. <i>Medical and Biological Engineering and Computing</i> , 2011, 49, 1337-1346.	1.6	36
100	Alternative communication systems for people with severe motor disabilities: a survey. <i>BioMedical Engineering OnLine</i> , 2011, 10, 31.	1.3	63
101	Brain-Computer Interface Controlled Functional Electrical Stimulation System for Ankle Movement. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2011, 8, 49.	2.4	101
102	Brisk movement imagination for the non-invasive control of neuroprostheses: A first attempt. , 2011, 2011, 4219-22.		2
103	Brain-controlled telepresence robot by motor-disabled people. , 2011, 2011, 4227-30.		85
104	Tools for brain-computer interaction: a general concept for a hybrid BCI. <i>Frontiers in Neuroinformatics</i> , 2011, 5, 30.	1.3	121
105	Evaluation of Methods for Estimating Fractal Dimension in Motor Imagery-Based Brain Computer Interface. <i>Discrete Dynamics in Nature and Society</i> , 2011, 2011, 1-8.	0.5	35
106	Non-Manual Control Devices. , 2011, , 233-250.		6
107	Accuracy of a P300 Speller for People with Motor Impairments: A Comparison. <i>Clinical EEG and Neuroscience</i> , 2011, 42, 214-218.	0.9	42
108	Toward development of a two-state brain-computer interface based on mental tasks. <i>Journal of Neural Engineering</i> , 2011, 8, 046014.	1.8	14
110	The auditory p300-based SSBCI: A door to minimally conscious patients?. , 2012, 2012, 4672-5.		7
111	First study towards linear control of an upper-limb neuroprosthesis with an EEG-based Brain-Computer Interface. , 2012, 2012, 3269-73.		5
112	Detection of event-related desynchronization during attempted and imagined movements in tetraplegics for brain switch control. , 2012, 2012, 3967-9.		16
113	Decoding of velocities and positions of 3D arm movement from EEG. , 2012, 2012, 6406-9.		53
114	Real-time two-dimensional asynchronous control of a computer cursor with a single subdural electrode. <i>Journal of Spinal Cord Medicine</i> , 2012, 35, 382-391.	0.7	5
115	BCI Application in Robotics Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 1869-1874.	0.4	11

#	ARTICLE	IF	CITATIONS
116	BCI Applications. , 2012, , 198-212.		0
117	BCIs That Use Sensorimotor Rhythms. , 2012, , 228-240.		16
118	Clinical Evaluation of BCIs. , 2012, , 326-336.		2
119	Is It Significant? Guidelines for Reporting BCI Performance. Biological and Medical Physics Series, 2012, , 333-354.	0.3	47
120	Neural interfaces for the brain and spinal cordâ€”restoring motor function. Nature Reviews Neurology, 2012, 8, 690-699.	4.9	213
121	On the feasibility of using motor imagery EEG-based brainâ€”computer interface in chronic tetraplegics for assistive robotic arm control: a clinical test and long-term post-trial follow-up. Spinal Cord, 2012, 50, 599-608.	0.9	181
122	Generation of spatial filters by ICA for detecting motor-related oscillatory EEG. , 2012, 2012, 1703-6.		3
123	Brain-Computer Interfaces in Medicine. Mayo Clinic Proceedings, 2012, 87, 268-279.	1.4	515
124	New input modalities for modern game design and virtual embodiment. , 2012, , .		9
125	Mind-focus onset of the physically challenged. , 2012, , .		0
126	Principles of Hybrid Brainâ€”Computer Interfaces. Biological and Medical Physics Series, 2012, , 355-373.	0.3	6
127	Balancing a simulated inverted pendulum through motor imagery: An EEG-based real-time control paradigm. Neuroscience Letters, 2012, 524, 95-100.	1.0	20
128	Brain Computer Interface for Hand Motor Function Restoration and Rehabilitation. Biological and Medical Physics Series, 2012, , 131-153.	0.3	14
129	Brain Computer Interfaces, a Review. Sensors, 2012, 12, 1211-1279.	2.1	1,588
130	Error potential detection during continuous movement of an artificial arm controlled by brainâ€”computer interface. Medical and Biological Engineering and Computing, 2012, 50, 223-230.	1.6	48
131	Planning of visually guided reachâ€”grasp movements: Inference from reaction time and contingent negative variation (CNV). Psychophysiology, 2012, 49, 17-30.	1.2	21
132	Adaptive estimation of EEG-rhythms for optimal band identification in BCI. Journal of Neuroscience Methods, 2012, 203, 163-172.	1.3	34
133	Target Selection With Hybrid Feature for BCI-Based 2-D Cursor Control. IEEE Transactions on Biomedical Engineering, 2012, 59, 132-140.	2.5	100



#	ARTICLE	IF	CITATIONS
134	Proposal of a SSVEP-BCI to Command a Robotic Wheelchair. Journal of Control, Automation and Electrical Systems, 2013, 24, 97-105.	1.2	41
135	EEG-based classification of imaginary left and right foot movements using beta rebound. Clinical Neurophysiology, 2013, 124, 2153-2160.	0.7	98
136	Daily training with realistic visual feedback improves reproducibility of event-related desynchronisation following hand motor imagery. Clinical Neurophysiology, 2013, 124, 1779-1786.	0.7	94
137	Personalized Neuroprosthetics. Science Translational Medicine, 2013, 5, 210rv2.	5.8	141
138	Real movement vs. motor imagery in healthy subjects. International Journal of Psychophysiology, 2013, 87, 35-41.	0.5	26
139	Towards Practical Brain-Computer Interfaces. Biological and Medical Physics Series, 2013, , .	0.3	40
140	Neuromuscular electrical stimulation induced brain patterns to decode motor imagery. Clinical Neurophysiology, 2013, 124, 1824-1834.	0.7	27
141	A Review of EEG-Based Brain-Computer Interfaces as Access Pathways for Individuals with Severe Disabilities. Assistive Technology, 2013, 25, 99-110.	1.2	122
142	Brain-computer interface technologies: from signal to action. Reviews in the Neurosciences, 2013, 24, 537-52.	1.4	169
143	Classification of brain signals associated with imagination of hand grasping, opening and reaching by means of wavelet-based common spatial pattern and mutual information. , 2013, 2013, 2224-7.		10
144	A dry electrode based headband voice brain-computer interface device. , 2013, , .		2
145	Brain-actuated humanoid robot control using one class motor imagery task. , 2013, , .		2
146	Online co-adaptive brain-computer interfacing: Preliminary results in individuals with spinal cord injury. , 2013, , .		1
147	Incorporation of a language model into a brain computer interface based speller through HMMs. , 2013, , .		7
148	Improved method to perform FES&BCI based rehabilitation. , 2013, , .		4
149	Decoding cognitive brain states. , 2013, , .		1
150	The auditory P300-based single-switch brain-computer interface: Paradigm transition from healthy subjects to minimally conscious patients. Artificial Intelligence in Medicine, 2013, 59, 81-90.	3.8	74
151	Finding a way in: A review and practical evaluation of fMRI and EEG for detection and assessment in disorders of consciousness. Neuroscience and Biobehavioral Reviews, 2013, 37, 1403-1419.	2.9	76

#	ARTICLE	IF	CITATIONS
153	Hybrid brain-computer interfaces and hybrid neuroprostheses for restoration of upper limb functions in individuals with high-level spinal cord injury. <i>Artificial Intelligence in Medicine</i> , 2013, 59, 133-142.	3.8	150
154	A hybrid BCI for enhanced control of a telepresence robot. , 2013, 2013, 3097-100.		24
155	A SINGLE-SWITCH BCI BASED ON PASSIVE AND IMAGINED MOVEMENTS: TOWARD RESTORING COMMUNICATION IN MINIMALLY CONSCIOUS PATIENTS. <i>International Journal of Neural Systems</i> , 2013, 23, 1250037.	3.2	66
156	An OpenViBE-based brainwave control system for Cerebot. , 2013, , .		10
157	Interfaces with the Peripheral Nerve for the Control of Neuroprostheses. <i>International Review of Neurobiology</i> , 2013, 109, 63-83.	0.9	77
159	A competitive brain computer interface: Multi-person car racing system. , 2013, 2013, 2200-3.		4
161	Time-Domain Correlations of Imagined Arm Positions with Brain Sources. <i>Biomedizinische Technik</i> , 2013, 58 Suppl 1, .	0.9	0
162	Semantic Classical Conditioning and Brain-Computer Interface Control: Encoding of Affirmative and Negative Thinking. <i>Frontiers in Neuroscience</i> , 2013, 7, 23.	1.4	13
163	Evaluation of EEG Features in Decoding Individual Finger Movements from One Hand. <i>Computational and Mathematical Methods in Medicine</i> , 2013, 2013, 1-10.	0.7	25
164	A Co-Adaptive Brain-Computer Interface for End Users with Severe Motor Impairment. <i>PLoS ONE</i> , 2014, 9, e101168.	1.1	40
165	Challenges in clinical applications of brain computer interfaces in individuals with spinal cord injury. <i>Frontiers in Neuroengineering</i> , 2014, 7, 38.	4.8	65
166	Restoration of motor function following spinal cord injury via optimal control of intraspinal microstimulation: toward a next generation closed-loop neural prosthesis. <i>Frontiers in Neuroscience</i> , 2014, 8, 296.	1.4	43
167	Non motor tasks improve adaptive brain-computer interface performance in users with severe motor impairment. <i>Frontiers in Neuroscience</i> , 2014, 8, 320.	1.4	25
168	An adaptive brain actuated system for augmenting rehabilitation. <i>Frontiers in Neuroscience</i> , 2014, 8, 415.	1.4	14
169	Decoding the ERD/ERS: influence of afferent input induced by a leg assistive robot. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 85.	1.2	25
170	Significant improvement in one-dimensional cursor control using Laplacian electroencephalography over electroencephalography. <i>Journal of Neural Engineering</i> , 2014, 11, 035014.	1.8	25
171	Combined EEG-fNIRS Decoding of Motor Attempt and Imagery for Brain Switch Control: An Offline Study in Patients With Tetraplegia. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014, 22, 222-229.	2.7	62
172	Advances in Physiological Computing. <i>Human-computer Interaction Series</i> , 2014, , .	0.4	31

#	ARTICLE	IF	CITATIONS
173	SSVEP-based hierarchical architecture for control of a humanoid robot with mind. , 2014, , .		7
174	Workshops of the Fifth International Brain-Computer Interface Meeting: Defining the Future. Brain-Computer Interfaces, 2014, 1, 27-49.	0.9	35
175	Replace, Repair, Restore, Relieve â€“ Bridging Clinical and Engineering Solutions in Neurorehabilitation. Biosystems and Biorobotics, 2014, , .	0.2	8
176	Brain-Machine Interfaces. , 2014, , 1343-1352.		1
177	Preserved Foot Motor Cortex in Patients With Complete Spinal Cord Injury. Neurorehabilitation and Neural Repair, 2014, 28, 179-187.	1.4	6
178	Towards BCI-Based Implicit Control in Humanâ€“Computer Interaction. Human-computer Interaction Series, 2014, , 67-90.	0.4	33
179	Brainâ€“Computer Interfaces and Assistive Technology. The International Library of Ethics, Law and Technology, 2014, , 7-38.	0.2	23
180	Evaluation of commercial brainâ€“computer interfaces in real and virtual world environment: A pilot study. Computers and Electrical Engineering, 2014, 40, 714-729.	3.0	56
181	Brain Machine Interface for wrist movement using Robotic Arm. , 2014, , .		3
182	Motor imagery-induced EEG patterns in individuals with spinal cord injury and their impact on brainâ€“computer interface accuracy. Journal of Neural Engineering, 2014, 11, 035011.	1.8	46
183	Corticospinal neuroprostheses to restore locomotion after spinal cord injury. Neuroscience Research, 2014, 78, 21-29.	1.0	47
184	A Custom MPSoC Architecture With Integrated Power Management for Real-Time Neural Signal Decoding. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2014, 4, 230-241.	2.7	8
185	Detection of the onset of upper-limb movements based on the combined analysis of changes in the sensorimotor rhythms and slow cortical potentials. Journal of Neural Engineering, 2014, 11, 056009.	1.8	81
186	Lateralized alpha-band cortical networks regulate volitional modulation of beta-band sensorimotor oscillations. NeuroImage, 2014, 87, 147-153.	2.1	55
187	EEG-Based Classification of Imagined Arm Trajectories. Biosystems and Biorobotics, 2014, , 611-620.	0.2	5
189	Education-oriented portable brain-controlled robot system. , 2015, , .		3
190	Identifying the human attention to different colors and intensities using P300. , 2015, , .		5
191	Transcranial magnetic stimulation for individual identification of the best electrode position for a motor imagery-based brain-computer interface. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 71.	2.4	6

#	ARTICLE	IF	CITATIONS
192	10. Brain-Machine Symbiosis. , 2015, , 175-197.		0
193	Motor imagery reinforces brain compensation of reach-to-grasp movement after cervical spinal cord injury. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 234.	1.0	29
194	EEG resolutions in detecting and decoding finger movements from spectral analysis. <i>Frontiers in Neuroscience</i> , 2015, 9, 308.	1.4	15
195	Closed-Loop Control of a Neuroprosthetic Hand by Magnetoencephalographic Signals. <i>PLoS ONE</i> , 2015, 10, e0131547.	1.1	33
196	Towards Noninvasive Hybrid Brain-Computer Interfaces: Framework, Practice, Clinical Application, and Beyond. <i>Proceedings of the IEEE</i> , 2015, 103, 926-943.	16.4	133
197	Towards Independence: A BCI Telepresence Robot for People With Severe Motor Disabilities. <i>Proceedings of the IEEE</i> , 2015, 103, 969-982.	16.4	150
198	Assistive Robots for Physical and Cognitive Rehabilitation in Cerebral Palsy. <i>Springer Tracts in Advanced Robotics</i> , 2015, , 133-156.	0.3	14
199	Functional Rehabilitation of the Paralyzed Upper Extremity After Spinal Cord Injury by Noninvasive Hybrid Neuroprostheses. <i>Proceedings of the IEEE</i> , 2015, 103, 954-968.	16.4	60
200	A novel channel selection method for optimal classification in different motor imagery BCI paradigms. <i>BioMedical Engineering OnLine</i> , 2015, 14, 93.	1.3	46
201	Evaluation of a low-cost alternative communication device with brain control. , 2015, , .		5
202	Movement target decoding from EEG and the corresponding discriminative sources: A preliminary study. , 2015, 2015, 1468-71.		4
203	Achievements and challenges of translational research in non-invasive SMR-BCI-controlled upper extremity neuroprosthesis in spinal cord injury. , 2015, , .		1
204	Thought-based row-column scanning communication board for individuals with cerebral palsy. <i>Annals of Physical and Rehabilitation Medicine</i> , 2015, 58, 14-22.	1.1	40
205	FORCe: Fully Online and Automated Artifact Removal for Brain-Computer Interfacing. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2015, 23, 725-736.	2.7	133
206	Patient-Specific Cortical Electrodes for Sulcal and Gyral Implantation. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 1034-1041.	2.5	26
207	Using a Noninvasive Decoding Method to Classify Rhythmic Movement Imaginations of the Arm in Two Planes. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 972-981.	2.5	59
208	Feature learning from incomplete EEG with denoising autoencoder. <i>Neurocomputing</i> , 2015, 165, 23-31.	3.5	127
209	An EEG/EOG-based hybrid brain-neural computer interaction (BNCI) system to control an exoskeleton for the paralyzed hand. <i>Biomedizinische Technik</i> , 2015, 60, 199-205.	0.9	56

#	ARTICLE	IF	CITATIONS
210	Using Brain Computer Interface for Synthesized Speech Communication for the Physically Disabled. <i>Procedia Computer Science</i> , 2015, 46, 292-298.	1.2	28
211	Moving Brain-Controlled Devices Outside the Lab: Principles and Applications. <i>Trends in Augmentation of Human Performance</i> , 2015, , 73-94.	0.4	1
212	Brain Control of Horizontal Airplane Motion - A Comparison of Two Approaches. , 2015, , .		1
213	Sites of electrical stimulation used in neurology. <i>Annals of Physical and Rehabilitation Medicine</i> , 2015, 58, 201-207.	1.1	5
214	Brain-controlled applications using dynamic P300 speller matrices. <i>Artificial Intelligence in Medicine</i> , 2015, 63, 7-17.	3.8	46
215	The coordinate system for force control. <i>Experimental Brain Research</i> , 2015, 233, 899-908.	0.7	2
216	Short-Term Neuroplastic Effects of Brain-Controlled and Muscle-Controlled Electrical Stimulation. <i>Neuromodulation</i> , 2015, 18, 233-240.	0.4	45
217	A Low Cost Eeg Based Bci Prosthetic Using Motor Imagery. <i>International Journal of Advanced Information Technology</i> , 2016, 6, 23-36.	1.0	25
218	BCI-Triggered functional electrical stimulation therapy for upper limb. <i>European Journal of Translational Myology</i> , 2016, 26, 6222.	0.8	9
219	The Evolution of Neuroprosthetic Interfaces. <i>Critical Reviews in Biomedical Engineering</i> , 2016, 44, 123-152.	0.5	56
220	Detecting the Intention to Move Upper Limbs from Electroencephalographic Brain Signals. <i>Computational and Mathematical Methods in Medicine</i> , 2016, 2016, 1-11.	0.7	11
221	EEG-Triggered Functional Electrical Stimulation Therapy for Restoring Upper Limb Function in Chronic Stroke with Severe Hemiplegia. <i>Case Reports in Neurological Medicine</i> , 2016, 2016, 1-11.	0.3	26
222	Technical Concept and Technology Choices for Implementing a Tangible Version of the Sokoban Game. , 2016, , .		0
223	Real-Time Control of a Neuroprosthetic Hand by Magnetoencephalographic Signals from Paralysed Patients. <i>Scientific Reports</i> , 2016, 6, 21781.	1.6	44
224	Brain-computer interface adaptation for an end user to compete in the Cybathlon. , 2016, , .		7
225	A study on the effect of Electrical Stimulation during motor imagery learning in Brain-computer interfacing. , 2016, , .		4
226	Somatic and movement inductions phantom limb in non-amputees. <i>Journal of Physics: Conference Series</i> , 2016, 705, 012062.	0.3	0
227	EEG classification for motor imagery and resting state in BCI applications using multi-class Adaboost extreme learning machine. <i>Review of Scientific Instruments</i> , 2016, 87, 085110.	0.6	44

#	ARTICLE	IF	CITATIONS
228	EEG-based BCI for the linear control of an upper-limb neuroprosthesis. <i>Medical Engineering and Physics</i> , 2016, 38, 1195-1204.	0.8	48
230	Internet of Brain: Decoding Human Intention and Coupling EEG Signals with Internet Services. , 2016, , .		4
231	From classic motor imagery to complex movement intention decoding. <i>Progress in Brain Research</i> , 2016, 228, 39-70.	0.9	62
232	Effects of Action Observational Training Plus Brain-Computer Interface-Based Functional Electrical Stimulation on Paretic Arm Motor Recovery in Patient with Stroke: A Randomized Controlled Trial. <i>Occupational Therapy International</i> , 2016, 23, 39-47.	0.3	120
233	Single Versus Multiple Events Error Potential Detection in a BCI-Controlled Car Game With Continuous and Discrete Feedback. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 519-529.	2.5	39
234	Separable Common Spatio-Spectral Patterns for Motor Imagery BCI Systems. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 15-29.	2.5	134
235	Random forests in non-invasive sensorimotor rhythm brain-computer interfaces: a practical and convenient non-linear classifier. <i>Biomedizinische Technik</i> , 2016, 61, 77-86.	0.9	84
236	EEG neural correlates of goal-directed movement intention. <i>NeuroImage</i> , 2017, 149, 129-140.	2.1	92
237	Workshops of the Sixth International Brain-Computer Interface Meeting: brain-computer interfaces past, present, and future. <i>Brain-Computer Interfaces</i> , 2017, 4, 3-36.	0.9	24
238	A spatial-frequency-temporal optimized feature sparse representation-based classification method for motor imagery EEG pattern recognition. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 1589-1603.	1.6	43
239	Assistive grasping with an augmented reality user interface. <i>International Journal of Robotics Research</i> , 2017, 36, 543-562.	5.8	12
240	Index finger motor imagery EEG pattern recognition in BCI applications using dictionary cleaned sparse representation-based classification for healthy people. <i>Review of Scientific Instruments</i> , 2017, 88, 094305.	0.6	15
241	Hierarchical decoding of grasping commands from EEG. , 2017, 2017, 2085-2088.		3
242	Skeletal Motor Neuroprostheses. <i>Series on Bioengineering and Biomedical Engineering</i> , 2017, , 491-536.	0.1	1
243	Usability of the Combination of Brain-Computer Interface, Functional Electrical Stimulation and Virtual Reality for Improving Hand Function in Spinal Cord Injured Patients. <i>Biosystems and Biorobotics</i> , 2017, , 331-335.	0.2	0
244	A brain-controlled exoskeleton with cascaded event-related desynchronization classifiers. <i>Robotics and Autonomous Systems</i> , 2017, 90, 15-23.	3.0	107
245	Endogenous Control of Powered Lower-Limb Exoskeleton. <i>Biosystems and Biorobotics</i> , 2017, , 115-119.	0.2	6
246	14 Brain-Computer Interfaces to Enhance Function After Spinal Cord Injury. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
247	12 Functional Electrical Stimulation and Neuromodulation Approaches to Enhance Recovery After Spinal Cord Injury. , 2017, , .		0
248	Mind interactive multimedia system for disabled people. , 2017, , .		1
249	EEG signal clustering for motor and imaginary motor tasks on hands and feet. , 2017, , .		5
250	Supervised pattern recognition techniques for detecting motor intention of lower limbs in subjects with cerebral palsy. , 2017, , .		2
251	Cyathlon experiences of the Graz BCI racing team Mirage91 in the brain-computer interface discipline. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 129.	2.4	18
252	A hybrid BMI for control of robotic swarms: Preliminary results. , 2017, , .		14
253	Noninvasive Brain Machine Interfaces for Assistive and Rehabilitation Robotics. , 2017, , 187-216.		6
254	EEG-controlled functional electrical stimulation for hand opening and closing in chronic complete cervical spinal cord injury. Biomedical Physics and Engineering Express, 2018, 4, 065005.	0.6	18
256	Neuroprostheses: Significance in Gait Rehabilitation. Biosystems and Biorobotics, 2018, , 427-446.	0.2	3
257	Brain-Computer Interface for Novice Programmers. , 2018, , .		7
258	Towards non-invasive brain-computer interface for hand/arm control in users with spinal cord injury. , 2018, , .		5
259	Decoding natural reach-and-grasp actions from human EEG. Journal of Neural Engineering, 2018, 15, 016005.	1.8	100
260	Removal of Eye Blink Artifacts From EEG Signals Using Sparsity. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1362-1372.	3.9	43
261	An Optimizational Tactile P300 Brain-Computer Interface Paradigm. , 2018, , .		2
262	EEG-Based Detection of Brisk Walking Motor Imagery Using Feature Transformation Techniques. Lecture Notes in Computer Science, 2018, , 78-89.	1.0	0
263	Modified Graded Motor Imagery Programme Containing "Fekos Mirror Therapy method": A Novel Therapeutic Method for the Treatment of Shoulder Dysfunctions - a Pilot Study. Journal of Novel Physiotherapies, 2018, 08, .	0.1	2
264	HD-EEG Based Classification of Motor-Imagery Related Activity in Patients With Spinal Cord Injury. Frontiers in Neurology, 2018, 9, 955.	1.1	9
265	Brain Computer Interfaces in Rehabilitation Medicine. PM and R, 2018, 10, S233-S243.	0.9	59

#	ARTICLE	IF	CITATIONS
266	Meeting brain-computer interface user performance expectations using a deep neural network decoding framework. <i>Nature Medicine</i> , 2018, 24, 1669-1676.	15.2	123
267	Neurorehabilitation therapy of patients with severe stroke based on functional electrical stimulation commanded by a brain computer interface. <i>Journal of Rehabilitation and Assistive Technologies Engineering</i> , 2018, 5, 205566831878928.	0.6	29
268	EEG patterns of self-paced movement imaginations towards externally-cued and internally-selected targets. <i>Scientific Reports</i> , 2018, 8, 13394.	1.6	36
269	Tactile P300 Brain-Computer Interface Paradigm for Robot Arm Control. , 2018, , .		1
270	Study on Default Risk Identification and Coping Strategy for Contracts of Grid Materials under The Big Data Environment. , 2018, , .		1
271	Energy Harvesting of Synchronized Switch Harvesting On Inductor. , 2018, , .		1
272	Adaptive Dynamic Surface Control for a Kinetic Kill Vehicle with Side-window Detection. , 2018, , .		0
273	Intercomparison of reference measuring systems for lightning impulses between three National Metrology Institutes. , 2018, , .		2
274	Void Handling in 3D Wireless Sensor Networks. , 2018, , .		3
275	Development of embedded system for monitoring of real time harmonics. , 2018, , .		0
278	In Silico Comparison of Phase Maps Based on Action Potential and Extracellular Potential. , 2018, , .		0
279	An approach for brain-controlled prostheses based on Scene Graph Steady-State Visual Evoked Potentials. <i>Brain Research</i> , 2018, 1692, 142-153.	1.1	12
280	Online EEG artifact removal for BCI applications by adaptive spatial filtering. <i>Journal of Neural Engineering</i> , 2018, 15, 056009.	1.8	32
281	Noninvasive Brain-Computer Interfaces. , 2018, , 357-377.		3
282	FES-UPP: A Flexible Functional Electrical Stimulation System to Support Upper Limb Functional Activity Practice. <i>Frontiers in Neuroscience</i> , 2018, 12, 449.	1.4	8
283	Comparison of Four Control Methods for a Five-Choice Assistive Technology. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 228.	1.0	13
284	Markov Switching Model for Quick Detection of Event Related Desynchronization in EEG. <i>Frontiers in Neuroscience</i> , 2018, 12, 24.	1.4	21
285	Dexterous Control of Seven Functional Hand Movements Using Cortically-Controlled Transcutaneous Muscle Stimulation in a Person With Tetraplegia. <i>Frontiers in Neuroscience</i> , 2018, 12, 208.	1.4	53



#	ARTICLE	IF	CITATIONS
286	The Cybathlon BCI race: Successful longitudinal mutual learning with two tetraplegic users. PLoS Biology, 2018, 16, e2003787.	2.6	111
287	Impact of age, sex and hair type on SSVEP-based EEG signals analysis. , 2018, , .		0
288	Brainâ€œcomputer interfaces for neurorehabilitation: enhancing functional electrical stimulation. , 2018, , 425-451.		0
289	Brain-Machine Interfaces: Powerful Tools for Clinical Treatment and Neuroscientific Investigations. Neuroscientist, 2019, 25, 139-154.	2.6	51
290	Toward Brain-Actuated Mobile Platform. International Journal of Human-Computer Interaction, 2019, 35, 846-858.	3.3	7
291	Sensory Stimulation Training for BCI System Based on Somatosensory Attentional Orientation. IEEE Transactions on Biomedical Engineering, 2019, 66, 640-646.	2.5	24
292	Characterization of Occipital Alpha Rhythm Towards a Brain Activated Motor Neuroprosthesis. , 2019, , .		0
293	Brains and Blocks. ACM Transactions on Computing Education, 2019, 19, 1-27.	2.9	2
294	Development of a robust asynchronous brain-switch using ErrP-based error correction. Journal of Neural Engineering, 2019, 16, 066042.	1.8	12
295	Phase-amplitude coupling between mu- and gamma-waves to carry motor commands. , 2019, , .		14
296	A high performance hybrid SSVEP based BCI speller system. Advanced Engineering Informatics, 2019, 42, 100994.	4.0	21
297	The Possibility of Using Diagnostic Methods EEG and sEMG in Rehabilitation. , 2019, , .		0
298	Upper limb sensorimotor restoration through brainâ€œcomputer interface technology in tetraparesis. Current Opinion in Biomedical Engineering, 2019, 11, 85-101.	1.8	13
299	Direct comparison of supervised and semi-supervised retraining approaches for co-adaptive BCIs. Medical and Biological Engineering and Computing, 2019, 57, 2347-2357.	1.6	12
300	The Sensitivity of Single-Trial Mu-Suppression Detection for Motor Imagery Performance as Compared to Motor Execution and Motor Observation Performance. Frontiers in Human Neuroscience, 2019, 13, 302.	1.0	10
301	Clinically Significant Gains in Skillful Grasp Coordination by an Individual With Tetraplegia Using an Implanted Brain-Computer Interface With Forearm Transcutaneous Muscle Stimulation. Archives of Physical Medicine and Rehabilitation, 2019, 100, 1201-1217.	0.5	39
302	A Parallel Implementation of the Discrete Wavelet Transform Applied to Real-Time EEG Signal Filtering. IFMBE Proceedings, 2019, , 17-23.	0.2	2
303	Attempted Arm and Hand Movements can be Decoded from Low-Frequency EEG from Persons with Spinal Cord Injury. Scientific Reports, 2019, 9, 7134.	1.6	91

#	ARTICLE	IF	CITATIONS
304	Observing the steady-state visual evoked potentials with a compact quad-channel spin exchange relaxation-free magnetometer. Chinese Physics B, 2019, 28, 040702.	0.7	7
306	A Deep Neural Network for Antimicrobial Peptide Recognition. , 2019, , .		1
307	Continuous Improvement Model to Systematize Curricular Processes in Engineering Education. , 2019, , .		2
308	A Novel Fast-EIS Measuring Method And Implementation for Lithium-ion Batteries. , 2019, , .		3
309	Causality: An Overlooked Aspect in Anomaly Detection. , 2019, , .		1
310	Development of a 20 MHz annular-array “ a balancing act between optimized design and technological opportunities. , 2019, , .		0
311	A New Fast Matching Algorithm for Angle-Adaptive Grayscale Templates. , 2019, , .		0
312	Statistical Analysis of Temporal Headway Development through Empirical Data in Urban Traffic. , 2019, , .		0
313	Reptile Meta-Tracking. , 2019, , .		3
314	Eventually Consistent Distributed Ledger Relying on Degraded Atomic Broadcast. , 2019, , .		1
315	Steady-State Visual Evoked Potentials-based Control of a Mobile Robot Platform as a Preamble to Support Paraplegics Mobility. , 2019, , .		1
316	Categorization of Multilingual Text on Languages of Indic Script. , 2019, , .		0
318	Thermal Piezoresistive Q Tuning of P-Type Silicon Resonator with Feedthrough Reduction. , 2019, , .		0
320	X-band Weather Radar Network in Chengdu. , 2019, , .		0
321	An advanced object classification strategy using YOLO through camera and LiDAR sensor fusion. , 2019, , .		12
322	Protecting Sensitive Location Visits Against Inference Attacks in Trajectory Publishing. , 2019, , .		1
323	Extraction and Presentation of People Flow Information to Assist Dynamic Environment Recognition for Visually Impaired People. , 2019, , .		2
324	Logic foundations of manipulation as game mechanics. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
325	An Adaptive Machine Learning Based Approach for the Cancellation of Second-Order-Intermodulation Distortions in 4G/5G Transceivers. , 2019, , .		8
326	Combining Deep Gaussian Process and Rule-Based Method for Decision-Making in Self-Driving Simulation with Small Data. , 2019, , .		0
327	Theoretical Derivation of Current Commutation Process during Electrical-Contact Sliding Movement in Model DC Motor. , 2019, , .		0
328	Beam Profile Characterization for Thickness Mode Transducers versus Radial Modes. , 2019, , .		1
329	A Leveling Control Media Prototype in Automatic Control. , 2019, , .		0
330	Predicting Immune Cell Composition Using Linear Programming. , 2019, , .		0
331	Active Fault Management for Networked Microgrids. , 2019, , .		2
332	Voltage Mitigation and Reactive Power Requirements for an Industrial Plant. , 2019, , .		0
333	Proving Erasure. , 2019, , .		6
334	Towards Contradiction Detection in German: a Translation-Driven Approach. , 2019, , .		12
335	Machine Learning Models for Activity Recognition and Authentication of Smartphone Users. , 2019, , .		2
336	Virtualization and Exploration of the Garudeya Historical Objects Using Immersive Devices. , 2019, , .		2
337	Goal-Directed Behavior under Variational Predictive Coding: Dynamic organization of Visual Attention and Working Memory. , 2019, , .		6
338	Humanoid Whole-Body Movement Optimization from Retargeted Human Motions. , 2019, , .		5
339	DC-DC High Conversion Ratio Push-Pull Resonant Converter Based on Voltage Double Rectifier. , 2019, , .		2
340	Advantages and Tuning of Zero Voltage Switching in a Wireless Power Transfer System. , 2019, , .		8
341	Robust Power Management for Cooperation in Jammed Wireless Localization Systems. , 2019, , .		0
342	Pixel Value Difference Based Image Steganography with One Time Pad Encryption. , 2019, , .		6

#	ARTICLE	IF	CITATIONS
343	Broadband terahertz heterodyne spectrometer exploiting synchrotron radiation at sub-megahertz resolution. , 2019, , .		0
345	Exploring Regression of Data Race Detection Tools Using DataRaceBench. , 2019, , .		3
346	Blended Learning with Telegram: An Approach using Soft System Methodology to Solve Multi-Perspective Problem in Learning Limitation. , 2019, , .		1
347	Study on Preparation and Application of Nano-copper Powder for Power Semiconductor Device Packaging. , 2019, , .		0
348	SOLBOX-17: Cylindrical lens structures. URSI Radio Science Bulletin, 2019, 2019, 58-64.	0.2	0
349	Incremental learning for the detection and classification of GAN-generated images. , 2019, , .		61
350	Resilience of Deep Space FSO Communication Scenario Involving SNSPD Receiver to Atmospheric Turbulence. , 2019, , .		0
351	On Hit Rate Improving and Energy Consumption Minimizing in Cache-Based Convergent Overlay Network on High-speed Train. , 2019, , .		1
352	Automatic Vision System and method for Detecting Defects on Nickel Foam Surface. , 2019, , .		2
353	Implementation of Single Stage Converter (Z-Source Inverter) for Induction Motor Supply. , 2019, , .		0
354	Epitaxial Lift-Off of Ultrathin Heterostructures for Hot-Carrier Solar Cell Applications. , 2019, , .		0
355	Intentional Electromagnetic Irradiation of a Microcontroller. , 2019, , .		2
356	A Blockchain-Based distributed network for Secure Credit Scoring. , 2019, , .		9
357	Multi-objective optimization of the motor with the novel Halbach permanent magnet array. , 2019, , .		4
358	Research on Target Selection Simulation Based on Multidimensional Feature Parameter Identification. , 2019, , .		1
359	The Evaluation of Finance Module Implementation of Enterprise Resource Planning (ERP) for Employee Performance. , 2019, , .		1
360	Simultaneous Prediction of Valence / Arousal and Emotion Categories in Real-time. , 2019, , .		3
361	A new Quantum Processor Architecture. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
362	Evaluation of cortical segmentation pipelines on clinical neonatal MRI data. , 2019, 2019, 6553-6556.		1
363	Automated Rainwater Harvesting System. , 2019, , .		1
364	Phoneme Boundary Analysis Using Graphs. , 2019, , .		2
365	Recognition of Angiographic Atherosclerotic Plaque Development Based on Deep Learning. IEEE Access, 2019, 7, 170807-170819.	2.6	2
366	Test cost reduction through increase in multi-site testing with reduced scan-out pins. , 2019, , .		1
367	Some Research Problems in Biometrics: The Future Beckons. , 2019, , .		40
368	Ways of Producing Perovskite Light Absorbing Layer on Periodically Patterned Silicon Texture and Evaluating Method. , 2019, , .		0
369	Spatial Fusion GAN for Image Synthesis. , 2019, , .		85
370	Sensor fusion using EMG and vision for hand gesture classification in mobile applications. , 2019, , .		6
371	Control Home Devices with Voice Commands via a Smartphone. , 2019, , .		2
372	First demonstration of III-V HBTs on 300 mm Si substrates using nano-ridge engineering. , 2019, , .		15
373	Scheduling Charging of Electric Vehicles in a Secured Manner using Blockchain Technology. , 2019, , .		9
374	A Novel Boost Converter with Two Independently Controlled Switches. , 2019, , .		0
375	Lossless File Compression using Redundant Ngrams in English. , 2019, , .		0
376	Modeling and Optimal Current Control of Five-Phase PMSG - PWM Rectifier SET Non-Sinusoidal EMF Under Open-Circuit Faults. , 2019, , .		0
377	Epileptic Seizure Prediction: A Multi-Scale Convolutional Neural Network Approach. , 2019, , .		5
378	DR-Net: CNN Model to Automate Diabetic Retinopathy Stage Diagnosis. , 2019, , .		2
379	Mobile Brain-Body Imaging and the Neuroscience of Art, Innovation and Creativity. Springer Series on Bio- and Neurosystems, 2019, , .	0.2	9

#	ARTICLE	IF	CITATIONS
380	Applying intuitive EEG-controlled grasp neuroprostheses in individuals with spinal cord injury: Preliminary results from the MoreGrasp clinical feasibility study. , 2019, 2019, 5949-5955.		22
382	Ensemble Learning Based Brain-Computer Interface System for Ground Vehicle Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5392-5404.	5.9	19
383	Alcoholic EEG Analysis Using Riemann Geometry Based Framework. , 2019, , .		1
384	Workshops of the seventh international brain-computer interface meeting: not getting lost in translation. Brain-Computer Interfaces, 2019, 6, 71-101.	0.9	8
385	A comprehensive review of EEG-based brain-computer interface paradigms. Journal of Neural Engineering, 2019, 16, 011001.	1.8	512
386	Network neuroscience for optimizing brain-computer interfaces. Physics of Life Reviews, 2019, 31, 304-309.	1.5	29
388	Information Systems and Neuroscience. Lecture Notes in Information Systems and Organisation, 2020, , .	0.4	2
389	Neurophysiological Closed-Loop Control for Competitive Multi-brain Robot Interaction. Advances in Intelligent Systems and Computing, 2020, , 141-149.	0.5	1
390	Unimanual and Bimanual Reach-and-Grasp Actions Can Be Decoded From Human EEG. IEEE Transactions on Biomedical Engineering, 2020, 67, 1684-1695.	2.5	36
391	Novel hybrid brain-computer interface system based on motor imagery and P300. Cognitive Neurodynamics, 2020, 14, 253-265.	2.3	27
392	Motor imagery based brain-computer interface control of continuous passive motion for wrist extension recovery in chronic stroke patients. Neuroscience Letters, 2020, 718, 134727.	1.0	26
393	Neural decoding of continuous upper limb movements: a meta-analysis. Disability and Rehabilitation: Assistive Technology, 2022, 17, 731-737.	1.3	0
394	Analyzing and Decoding Natural Reach-and-Grasp Actions Using Gel, Water and Dry EEG Systems. Frontiers in Neuroscience, 2020, 14, 849.	1.4	26
395	A Self-Paced Two-State Mental Task-Based Brain-Computer Interface with Few EEG Channels. , 2020, , .		0
396	Why brain-controlled neuroprosthetics matter: mechanisms underlying electrical stimulation of muscles and nerves in rehabilitation. BioMedical Engineering OnLine, 2020, 19, 81.	1.3	31
397	Brain-computer interfaces in neurologic rehabilitation practice. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 168, 101-116.	1.0	43
398	Benchmark Dataset Selection of Web Services Technologies: A Factor Analysis. IEEE Access, 2020, 8, 53649-53665.	2.6	10
399	Electroencephalography. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 168, 249-262.	1.0	36

#	ARTICLE	IF	CITATIONS
400	An Operational Adjustment Framework for a Complex Industrial Process Based on Hybrid Bayesian Network. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1699-1710.	3.4	13
402	Overload Capability of Multiphase Machines Under Normal and Open-Phase Fault Conditions: A Thermal Analysis Approach. IEEE Transactions on Industry Applications, 2020, 56, 2560-2569.	3.3	21
403	A Distributed Link Scheduler for In-Band Full Duplex Wireless Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 5255-5267.	3.9	2
404	Towards Deep Object Detection Techniques for Phoneme Recognition. IEEE Access, 2020, 8, 54663-54680.	2.6	19
405	Dual-band frequency-reconfigurable MIMO PIFA for LTE applications in mobile handheld devices. IET Microwaves, Antennas and Propagation, 2020, 14, 419-427.	0.7	8
406	Effect of Substrate Choice on Transient Performance of Lateral GaN FETs. IEEE Journal of the Electron Devices Society, 2020, 8, 331-335.	1.2	3
407	An Observer-Based Switch Open-Circuit Fault Diagnosis of DC-DC Converter for Fuel Cell Application. IEEE Transactions on Industry Applications, 2020, 56, 3159-3167.	3.3	46
408	VSB Modified Duobinary PAM4 Signal Transmission in an IM/DD System With Mitigated Image Interference. IEEE Photonics Technology Letters, 2020, 32, 363-366.	1.3	11
409	Dream engineering: Simulating worlds through sensory stimulation. Consciousness and Cognition, 2020, 83, 102955.	0.8	28
410	Experimental Verification and Analytical Study of Influence of Rotor Eccentricity on Electromagnetic Characteristics of Permanent Magnet Machine. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	7
411	A Hybrid Evolutionary-Based MPPT for Photovoltaic Systems Under Partial Shading Conditions. IEEE Access, 2020, 8, 38481-38492.	2.6	66
412	Linearizing Power Flow Model: A Hybrid Physical Model-Driven and Data-Driven Approach. IEEE Transactions on Power Systems, 2020, 35, 2475-2478.	4.6	43
413	Using machine learning to reveal the population vector from EEG signals. Journal of Neural Engineering, 2020, 17, 026002.	1.8	11
414	Brain-Computer Interface Software: A Review and Discussion. IEEE Transactions on Human-Machine Systems, 2020, 50, 101-115.	2.5	38
415	Low-Cost Robotic Guide Based on a Motor Imagery Brain-Computer Interface for Arm Assisted Rehabilitation. International Journal of Environmental Research and Public Health, 2020, 17, 699.	1.2	13
416	Numerical Code for Modeling Electrothermal Effects of Lightning Strike on CFRP Composites. IEEE Transactions on Magnetics, 2020, 56, 1-4.	1.2	0
417	Homotopic Convex Transformation: A New Landscape Smoothing Method for the Traveling Salesman Problem. IEEE Transactions on Cybernetics, 2022, 52, 495-507.	6.2	7
418	Brain-machine interfaces. , 2020, , 1037-1045.		0

#	ARTICLE	IF	CITATIONS
419	Decoding hand movements from human EEG to control a robotic arm in a simulation environment. Journal of Neural Engineering, 2020, 17, 036010.	1.8	32
420	Runway Width Design Based on Wheel Trace Distribution Test. IEEE Access, 2020, 8, 61384-61394.	2.6	2
421	QOS-Aware Flow Control for Power-Efficient Data Center Networks with Deep Reinforcement Learning. , 2020, , .		5
422	Interference Resource Allocation Models for Communication Equipment. , 2020, , .		0
423	Temporal frequency joint sparse optimization and fuzzy fusion for motor imagery-based brain-computer interfaces. Journal of Neuroscience Methods, 2020, 340, 108725.	1.3	12
424	User Adaptation to Closed-Loop Decoding of Motor Imagery Termination. IEEE Transactions on Biomedical Engineering, 2021, 68, 3-10.	2.5	10
425	Electroencephalography and Brain-Computer Interfaces. , 2021, , 71-103.		1
426	Biologically-Inspired Legged Robot Locomotion Controlled With a BCI by Means of Cognitive Monitoring. IEEE Access, 2021, 9, 35766-35777.	2.6	10
427	Cognitive State Analysis, Understanding, and Decoding from the Perspective of Brain Connectivity. , 2021, , 1-35.		0
428	Non-invasive Brain-Computer Interfaces for Control of Grasp Neuroprosthesis: The European MoreGrasp Initiative. , 2021, , 307-352.		0
429	Toward Non-invasive BCI-Based Movement Decoding. , 2021, , 233-249.		0
430	Classify four imagined objects with EEG signals. Evolutionary Intelligence, 0, , 1.	2.3	1
431	Cluster decomposing and multi-objective optimization based-ensemble learning framework for motor imagery-based brain-computer interfaces. Journal of Neural Engineering, 2021, 18, 026018.	1.8	17
432	Enhancing Sustained Attention. Business and Information Systems Engineering, 2021, 63, 653-668.	4.0	5
433	Decoding of continuous movement attempt in 2-dimensions from non-invasive low frequency brain signals. , 2021, , .		7
434	Multiplayer Online Car Racing with BCI In VR. , 2021, , .		5
435	Physical principles of brain-computer interfaces and their applications for rehabilitation, robotics and control of human brain states. Physics Reports, 2021, 918, 1-133.	10.3	88
436	A Literature Review of Physiological-Based Mobile Educational Systems. IEEE Transactions on Learning Technologies, 2021, 14, 272-291.	2.2	1



#	ARTICLE	IF	CITATIONS
438	Improving motor imagery classification during induced motor perturbations. Journal of Neural Engineering, 2021, 18, 0460b1.	1.8	13
439	Online detection of movement during natural and self-initiated reach-and-grasp actions from EEG signals. Journal of Neural Engineering, 2021, 18, 046095.	1.8	7
440	Brain-Computer Interfaces: Neurorehabilitation of Voluntary Movement after Stroke and Spinal Cord Injury. Synthesis Lectures on Assistive Rehabilitative and Health-Preserving Technologies, 2021, 10, i-133.	0.2	0
441	Characterizing the stimulation interference in electroencephalographic signals during brain-computer interface-controlled functional electrical stimulation therapy. Artificial Organs, 2021, , .	1.0	1
442	Summary of over Fifty Years with Brain-Computer Interfaces—A Review. Brain Sciences, 2021, 11, 43.	1.1	93
444	Optimized Correlation-Based Time Window Selection Algorithm for Motor Imagery Based BCIs. Advances in Cognitive Neurodynamics, 2021, , 27-36.	0.1	0
446	The Art, Science, and Engineering of BCI Hackathons. Springer Series on Bio- and Neurosystems, 2019, , 147-155.	0.2	2
447	Grasping with Your Face. Springer Tracts in Advanced Robotics, 2013, , 435-448.	0.3	5
448	BNCI Horizon 2020 — Towards a Roadmap for Brain/Neural Computer Interaction. Lecture Notes in Computer Science, 2014, , 475-486.	1.0	15
449	Brain-Computer Interfaces for Motor Rehabilitation. , 2017, , 1-31.		1
450	Brain-Computer Interfaces Based on Attention and Complex Mental Tasks. Lecture Notes in Computer Science, 2007, , 467-473.	1.0	26
451	Dynamics of Sensorimotor Oscillations in a Motor Task. The Frontiers Collection, 2009, , 47-64.	0.1	12
452	P300 Based Brain Computer Interfaces: A Progress Report. Lecture Notes in Computer Science, 2009, , 724-731.	1.0	17
453	Assessing the impact of vibrotactile kinaesthetic feedback on electroencephalographic signals in a center-out task. Journal of Neural Engineering, 2020, 17, 056032.	1.8	8
454	Distance- and speed-informed kinematics decoding improves M/EEG based upper-limb movement decoder accuracy. Journal of Neural Engineering, 2020, 17, 056027.	1.8	16
455	Brain-controlled cycling system for rehabilitation following paraplegia with delay-time prediction. Journal of Neural Engineering, 2021, 18, 016022.	1.8	7
456	Functional electrical stimulation therapy for restoration of motor function after spinal cord injury and stroke: a review. BioMedical Engineering OnLine, 2020, 19, 34.	1.3	148
457	Real-Time Two-Dimensional Asynchronous Control of a Remote-Controlled Car Using a Single Electroencephalographic Electrode. Topics in Spinal Cord Injury Rehabilitation, 2009, 14, 62-68.	0.8	2

#	ARTICLE	IF	CITATIONS
458	Toward the Restoration of Hand Use to a Paralyzed Monkey: Brain-Controlled Functional Electrical Stimulation of Forearm Muscles. PLoS ONE, 2009, 4, e5924.	1.1	123
459	Individually Adapted Imagery Improves Brain-Computer Interface Performance in End-Users with Disability. PLoS ONE, 2015, 10, e0123727.	1.1	45
460	Upper limb movements can be decoded from the time-domain of low-frequency EEG. PLoS ONE, 2017, 12, e0182578.	1.1	161
461	Electroencephalography (EEG) as a Research Tool in the Information Systems Discipline: Foundations, Measurement, and Applications. Communications of the Association for Information Systems, 0, 37, .	0.7	44
465	Sensors for Motor Neuroprosthetics. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 38-64.	0.2	4
466	Brain-Computer Interfaces for Control of Upper Extremity Neuroprostheses in Individuals with High Spinal Cord Injury. , 2018, , 809-836.		2
467	An open-source and cross-platform framework for Brain Computer Interface-guided robotic arm control. , 2012, 3, 149.		4
468	15 Years of Evolution of Non-Invasive EEG-Based Methods for Restoring Hand & Arm Function with Motor Neuroprosthetics in Individuals with High Spinal Cord Injury: A Review of Graz BCI Research. Journal of Biomedical Science and Engineering, 2017, 10, 317-325.	0.2	4
470	Mechanical Structure and Control Methods for Lower-Limb Rehabilitation Robots. , 2021, , .		0
472	Functional Electrical Stimulation and Rehabilitation Applications of BCIs. , 2008, , 81-94.		2
473	Noninvasive Communication Systems. , 2008, , 95-108.		0
474	Non Invasive BCIs for Neuroprostheses Control of the Paralyzed Hand. The Frontiers Collection, 2009, , 171-184.	0.1	0
475	Multivariate methods for tracking cognitive states. , 2009, , 299-330.		2
476	Les interfaces Cerveau-Machine pour la palliation du handicap moteur s'vire. Sciences Et Technologies Pour Le Handicap, 2009, 3, 95-121.	0.1	2
477	Membership Function-based Classification Algorithms for Stability improvements of BCI Systems. International Journal of Fuzzy Logic and Intelligent Systems, 2010, 10, 59-64.	0.6	0
478	Introduction to Devices, Applications and Users: Towards Practical BCIs Based on Shared Control Techniques. Biological and Medical Physics Series, 2012, , 107-129.	0.3	1
479	Brain-Computer Interfaces. The Ergonomics Design & Mgmtory & Applications, 2012, , .	0.2	0
480	A Novel Multi-class Brain-Computer Interface (BCI) Paradigm Based on Motor Imagery Sequential Coding (MISC) Protocol. Lecture Notes in Computer Science, 2013, , 295-302.	1.0	0

#	ARTICLE	IF	CITATIONS
481	Pengembangan Sistem Instrumentasi untuk Deteksi Aktifitas Jantung pada Mencit. Jurnal Otomasi, Kontrol & Instrumentasi, 2017, 9, 109.	0.0	0
482	Voluntary Blink Controlled Communication Protocol for Bed-Ridden Patients. Advances in Wireless Technologies and Telecommunication Book Series, 2017, , 162-195.	0.3	0
483	Brain-Computer Interfaces for Motor Rehabilitation. , 2018, , 1471-1501.		0
484	Brain-Computer Interface Systems Based On the Near-Infrared Spectroscopy. Mathematical Biology and Bioinformatics, 2018, 13, 84-129.	0.1	0
485	Perturbation-Evoked Potentials: Future Usage in Human-Machine Interaction. Lecture Notes in Information Systems and Organisation, 2020, , 271-277.	0.4	1
486	Spatial-temporal aspects of continuous EEG-based neurobotic control. Journal of Neural Engineering, 2020, 17, 066006.	1.8	11
487	On the Modulation of Perturbation-Evoked Potentials After Motor Reaction in a Human-Machine Interaction Setup. Lecture Notes in Information Systems and Organisation, 2020, , 344-349.	0.4	0
488	Review of Applications for Wireless Brain-Computer Interface Systems. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 128-152.	0.2	0
489	Brain-Computer Interfaces for Control of Upper Extremity Neuroprostheses in Individuals with High Spinal Cord Injury. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 237-264.	0.2	3
490	The current range of neuromodulatory devices and related technologies. , 2007, 97, 21-29.		6
491	KITE-BCI: A brain-computer interface system for functional electrical stimulation therapy. Journal of Spinal Cord Medicine, 2021, 44, S203-S214.	0.7	4
492	Fractal Methods and Power Spectral Density as Means to Explore EEG Patterns in Patients Undertaking Mental Tasks. Fractal and Fractional, 2021, 5, 225.	1.6	10
493	A Semi-Asynchronous Real-Time Facial Expression Assisted Brain Control Method: An Extension. , 2020, , .		2
494	A Brain-Computer Interface for Controlling IoT Devices using EEG Signals. , 2021, , .		4
495	An FPGA-Embedded Brain-Computer Interface System to Support Individual Autonomy in Locked-In Individuals. Sensors, 2022, 22, 318.	2.1	4
496	Workshops of the eighth international brain-computer interface meeting: BCIs: the next frontier. Brain-Computer Interfaces, 2022, 9, 69-101.	0.9	4
497	Feel Your Reach: An EEG-Based Framework to Continuously Detect Goal-Directed Movements and Error Processing to Gate Kinesthetic Feedback Informed Artificial Arm Control. Frontiers in Human Neuroscience, 2022, 16, 841312.	1.0	10
504	Specificities of ERD lateralization during motion execution. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
507	Reducing the Calibration Time in Somatosensory BCI by Using Tactile ERD. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 1870-1876.	2.7	9
508	Performance Variation of a Somatosensory BCI Based on Imagined Sensation: A Large Population Study. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 2486-2493.	2.7	12
509	A novel noninvasive brain-computer interface by imagining isometric force levels. Cognitive Neurodynamics, 0, , .	2.3	0
510	Hybrid mental tasks based human computer interface via integration of pronunciation and motor imagery. Journal of Neural Engineering, 2022, 19, 056048.	1.8	5
511	Design and performance study of a BMI-based hand-assisted robot. , 2022, , .		0
512	Cognitive State Analysis, Understanding, and Decoding from the Perspective of Brain Connectivity. , 2023, , 2733-2767.		0
513	A Neuroprosthetic for Individuals with Tetraplegia: The Path from a Clinical Research Tool to a Home-Use Assistive Device. , 2023, , 3353-3385.		0
514	MRCPs-and-ERS/D-Oscillations-Driven Deep Learning Models for Decoding Unimanual and Bimanual Movements. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2023, 31, 1384-1393.	2.7	2
518	Virtual reality, augmented reality technologies, and rehabilitation. , 2023, , 111-134.		0