Jose Del R Millan

List of Publications by Year
in descending order

246 papers	15,049 citations	31949 53 h-index	25770 108 g-index
257 all docs	257 docs citations	257 times ranked	9642 citing authors

#	Article	IF	Citations
1	The BCI competition III: validating alternative approaches to actual BCI problems. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 153-159.	2.7	832
2	Control strategies for active lower extremity prosthetics and orthotics: a review. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 1.	2.4	773
3	A brain-actuated wheelchair: Asynchronous and non-invasive Brainâ€“computer interfaces for continuous control of robots. Clinical Neurophysiology, 2008, 119, 2159-2169.	0.7	656
4	Noninvasive Brain-Actuated Control of a Mobile Robot by Human EEG. IEEE Transactions on Biomedical Engineering, 2004, 51, 1026-1033.	2.5	562
5	The Opportunity challenge: A benchmark database for on-body sensor-based activity recognition. Pattern Recognition Letters, 2013, 34, 2033-2042.	2.6	508
6	Combining brain-computer interfaces and assistive technologies: state-of-the-art and challenges. Frontiers in Neuroscience, 2010, 1, .	1.4	476
7	Person Authentication Using Brainwaves (EEG) and Maximum A Posteriori Model Adaptation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 743-752.	9.7	403
8	Collecting complex activity datasets in highly rich networked sensor environments. , 2010, , .		401
9	Brain-actuated functional electrical stimulation elicits lasting arm motor recovery after stroke. Nature Communications, 2018, 9, 2421.	5.8	342
10	Brain-Controlled Wheelchairs: A Robotic Architecture. IEEE Robotics and Automation Magazine, 2013, 20, 65-73.	2.2	337
11	Brainâ€computer interfaces for postâ€stroke motor rehabilitation: a metaâ€analysis. Annals of Clinical and Translational Neurology, 2018, 5, 651-663.	1.7	300
12	Error-Related EEG Potentials Generated During Simulated Brainâ€“Computer Interaction. IEEE Transactions on Biomedical Engineering, 2008, 55, 923-929.	2.5	278
13	Asynchronous BCI and local neural classifiers: an overview of the adaptive brain interface project. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2003, 11, 159-161.	2.7	239
14	Brain-Computer Interfacing for Intelligent Systems. IEEE Intelligent Systems, 2008, 23, 72-79.	4.0	218
15	Errare machinale est: the use of error-related potentials in brain-machine interfaces. Frontiers in Neuroscience, 2014, 8, 208.	1.4	216
16	Learning From EEG Error-Related Potentials in Noninvasive Brain-Computer Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 381-388.	2.7	198
17	A hybrid brainâ€“computer interface based on the fusion of electroencephalographic and electromyographic activities. Journal of Neural Engineering, 2011, 8, 025011.	1.8	177
18	Detection of self-paced reaching movement intention from EEG signals. Frontiers in Neuroengineering, 2012, 5, 13.	4.8	177

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19	Brain-actuated interaction. Artificial Intelligence, 2004, 159, 241-259.	3.9	175
20	BNCI Horizon 2020: towards a roadmap for the BCI community. Brain-Computer Interfaces, 2015, 2, 1-10.	0.9	169
21	Towards Independence: A BCI Telepresence Robot for People With Severe Motor Disabilities. Proceedings of the IEEE, 2015, 103, 969-982.	16.4	150
22	Towards a robust BCI: error potentials and online learning. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 164-168.	2.7	149
23	Decoding spectrotemporal features of overt and covert speech from the human cortex. Frontiers in Neuroengineering, 2014, 7, 14.	4.8	144
24	A local neural classifier for the recognition of EEG patterns associated to mental tasks. IEEE Transactions on Neural Networks, 2002, 13, 678-686.	4.8	142
25	Personalized Neuroprosthetics. Science Translational Medicine, 2013, 5, 210rv2.	5.8	141
26	Neurotechnology-aided interventions for upper limb motor rehabilitation in severe chronic stroke. Brain, 2019, 142, 2182-2197.	3.7	138
27	Adaptive brain interfaces. Communications of the ACM, 2003, 46, 74-80.	3.3	137
28	Linear classification of low-resolution EEG patterns produced by imagined hand movements. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 2000, 8, 186-188.	1.4	133
29	Towards Noninvasive Hybrid Brainâ€“Computer Interfaces: Framework, Practice, Clinical Application, and Beyond. Proceedings of the IEEE, 2015, 103, 926-943.	16.4	133
30	Transferring brainâ€“computer interfaces beyond the laboratory: Successful application control for motor-disabled users. Artificial Intelligence in Medicine, 2013, 59, 121-132.	3.8	131
31	Vibrotactile Feedback for Brain-Computer Interface Operation. Computational Intelligence and Neuroscience, 2007, 2007, 1-12.	1.1	122
32	Tools for brain-computer interaction: a general concept for a hybrid BCI. Frontiers in Neuroinformatics, 2011, 5, 30.	1.3	121
33	Teaching brain-machine interfaces as an alternative paradigm to neuroprosthetics control. Scientific Reports, 2015, 5, 13893.	1.6	119
34	Encoding and Decoding Models in Cognitive Electrophysiology. Frontiers in Systems Neuroscience, 2017, 11, 61.	1.2	116
35	Adaptive Shared Control of a Brain-Actuated Simulated Wheelchair. , 2007, , .		114
36	Word pair classification during imagined speech using direct brain recordings. Scientific Reports, 2016, 6, 25803.	1.6	113

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37	The Cybathlon BCI race: Successful longitudinal mutual learning with two tetraplegic users. PLoS Biology, 2018, 16, e2003787.	2.6	111
38	A brain-controlled exoskeleton with cascaded event-related desynchronization classifiers. Robotics and Autonomous Systems, 2017, 90, 15-23.	3.0	107
39	Gender bias in academia: A lifetime problem that needs solutions. Neuron, 2021, 109, 2047-2074.	3.8	106
40	On the need for on-line learning in brain-computer interfaces. , 0, , .		105
41	mano: A Wearable Hand Exoskeleton for Activities of Daily Living and Neurorehabilitation. IEEE Robotics and Automation Letters, 2018, 3, 500-507.	3.3	101
42	High-resolution EEG techniques for brainâ€“computer interface applications. Journal of Neuroscience Methods, 2008, 167, 31-42.	1.3	98
43	Asynchronous non-invasive brain-actuated control of an intelligent wheelchair. , 2009, 2009, 3361-4.		96
44	Context-Based Filtering for Assisted Brain-Actuated Wheelchair Driving. Computational Intelligence and Neuroscience, 2007, 2007, 1-12.	1.1	94
45	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
46	Brain-coupled interaction for semi-autonomous navigation of an assistive robot. Robotics and Autonomous Systems, 2010, 58, 1246-1255.	3.0	90
47	Continuous-Action Q-Learning. Machine Learning, 2002, 49, 247-265.	3.4	85
48	The role of shared-control in BCI-based telepresence. , 2010, , .		85
49	Brain-controlled telepresence robot by motor-disabled people. , 2011, 2011, 4227-30.		85
50	EEG-based decoding of error-related brain activity in a real-world driving task. Journal of Neural Engineering, 2015, 12, 066028.	1.8	84
51	NON-INVASIVE BRAIN-MACHINE INTERACTION. International Journal of Pattern Recognition and Artificial Intelligence, 2008, 22, 959-972.	0.7	83
52	Increasing upper limb training intensity in chronic stroke using embodied virtual reality: a pilot study. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 119.	2.4	79
53	Rapid, safe, and incremental learning of navigation strategies. IEEE Transactions on Systems, Man, and Cybernetics, 1996, 26, 408-420.	5.5	78
54	Relevant EEG features for the classification of spontaneous motor-related tasks. Biological Cybernetics, 2002, 86, 89-95.	0.6	78

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55	EEG-based Brain-Computer Interface to support post-stroke motor rehabilitation of the upper limb. , 2012, 2012, 4112-5.		76
56	Opportunistic human activity and context recognition. Computer, 2013, 46, 36-45.	1.2	70
57	Single trial analysis of slow cortical potentials: a study on anticipation related potentials. Journal of Neural Engineering, 2013, 10, 036014.	1.8	70
58	Decoding Inner Speech Using Electrocorticography: Progress and Challenges Toward a Speech Prosthesis. Frontiers in Neuroscience, 2018, 12, 422.	1.4	68
59	Benchmarking classification techniques using the Opportunity human activity dataset. , 2011, , .		67
60	Brainâ€“computer interfaces for space applications. Personal and Ubiquitous Computing, 2011, 15, 527-537.	1.9	66
61	Clinical evaluation of BrainTree, a motor imagery hybrid BCI speller. Journal of Neural Engineering, 2014, 11, 036003.	1.8	61
62	Single trial prediction of self-paced reaching directions from EEG signals. Frontiers in Neuroscience, 2014, 8, 222.	1.4	60
63	Classification of upper limb center-out reaching tasks by means of EEG-based continuous decoding techniques. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 9.	2.4	58
64	OPPORTUNITY: Towards opportunistic activity and context recognition systems. , 2009, , .		55
65	Multimodal Fusion of Muscle and Brain Signals for a Hybrid-BCI. , 2010, 2010, 4343-6.		54
66	Efficient learning of variable-resolution cognitive maps for autonomous indoor navigation. IEEE Transactions on Automation Science and Engineering, 1999, 15, 990-1000.	2.4	51
67	The effect of multimodal and enriched feedback on SMR-BCI performance. Clinical Neurophysiology, 2016, 127, 490-498.	0.7	50
68	Imagined speech can be decoded from low- and cross-frequency intracranial EEG features. Nature Communications, 2022, 13, 48.	5.8	50
69	Disentangling the origins of confidence in speeded perceptual judgments through multimodal imaging. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8382-8390.	3.3	49
70	Recognition of imagined hand movements with low resolution surface Laplacian and linear classifiers. Medical Engineering and Physics, 2001, 23, 323-328.	0.8	48
71	Very high frequency oscillations (VHFO) as a predictor of movement intentions. NeuroImage, 2006, 32, 170-179.	2.1	48
72	Brain-computer interfaces: Definitions and principles. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 168, 15-23.	1.0	48

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73	Corticospinal neuroprostheses to restore locomotion after spinal cord injury. Neuroscience Research, 2014, 78, 21-29.	1.0	47
74	Sensory threshold neuromuscular electrical stimulation fosters motor imagery performance. NeuroImage, 2018, 176, 268-276.	2.1	47
75	Human EEG reveals distinct neural correlates of power and precision grasping types. NeuroImage, 2018, 181, 635-644.	2.1	47
76	EEG-Based Lower-Limb Movement Onset Decoding: Continuous Classification and Asynchronous Detection. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1626-1635.	2.7	46
77	Reinforcement learning of goal-directed obstacle-avoiding reaction strategies in an autonomous mobile robot. Robotics and Autonomous Systems, 1995, 15, 275-299.	3.0	45
78	Brain-Machine Interfaces: A Tale of Two Learners. IEEE Systems, Man, and Cybernetics Magazine, 2020, 6, 12-19.	1.2	45
79	Brain-computer interfaces for hci and games. , 2008, , .		44
80	Unsupervised adaptation for acceleration-based activity recognition: robustness to sensor displacement and rotation. Personal and Ubiquitous Computing, 2013, 17, 479-490.	1.9	44
81	Cortico-Muscular Coherence Is Reduced Acutely Post-stroke and Increases Bilaterally During Motor Recovery: A Pilot Study. Frontiers in Neurology, 2019, 10, 126.	1.1	43
82	An online EEG BCI based on covert visuospatial attention in absence of exogenous stimulation. Journal of Neural Engineering, 2013, 10, 056007.	1.8	42
83	Action prediction based on anticipatory brain potentials during simulated driving. Journal of Neural Engineering, 2015, 12, 066006.	1.8	42
84	Latency correction of event-related potentials between different experimental protocols. Journal of Neural Engineering, 2014, 11, 036005.	1.8	41
85	Temporal Kohonen Map and the Recurrent Self-Organizing Map: Analytical and Experimental Comparison. Neural Processing Letters, 2001, 13, 237-251.	2.0	40
86	Feature Extraction for Multi-class BCI using Canonical Variates Analysis. , 2007, , .		40
87	Long-Term Stable Control of Motor-Imagery BCI by a Locked-In User Through Adaptive Assistance. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 380-391.	2.7	38
88	Closed-loop electrical neurostimulation: Challenges and opportunities. Current Opinion in Biomedical Engineering, 2018, 8, 28-37.	1.8	38
89	Towards natural non-invasive hand neuroprostheses for daily living. , 2010, 2010, 126-9.		37
90	On-line anomaly detection and resilience in classifier ensembles. Pattern Recognition Letters, 2013, 34, 1916-1927.	2.6	37

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91	Cortical and subcortical mechanisms of brainâ€machine interfaces. Human Brain Mapping, 2017, 38, 2971-2989.	1.9	36
92	Hyperdimensional Computing for Noninvasive Brainâ€“Computer Interfaces: Blind and One-Shot Classification of EEG Error-Related Potentials. , 2017, , .		36
93	Latency correction of error potentials between different experiments reduces calibration time for single-trial classification. , 2012, 2012, 3288-91.		35
94	EEG topographies provide subject-specific correlates of motor control. Scientific Reports, 2017, 7, 13229.	1.6	35
95	Neural Encoding of Auditory Features during Music Perception and Imagery. Cerebral Cortex, 2018, 28, 4222-4233.	1.6	35
96	Detection of anticipatory brain potentials during car driving. , 2012, 2012, 3829-32.		34
97	The timing of exploratory decision-making revealed by single-trial topographic EEGanalyses. NeuroImage, 2012, 60, 1959-1969.	2.1	34
98	The use of intracranial recordings to decode human language: Challenges and opportunities. Brain and Language, 2019, 193, 73-83.	0.8	34
99	Non-invasive estimation of local field potentials for neuroprosthesis control. Cognitive Processing, 2005, 6, 59-64.	0.7	32
100	Brainâ€“machine interface: closer to therapeutic reality?. Lancet, The, 2013, 381, 515-517.	6.3	32
101	Fast Recognition of Anticipation-Related Potentials. IEEE Transactions on Biomedical Engineering, 2009, 56, 1257-1260.	2.5	31
102	Context-aware adaptive spelling in motor imagery BCI. Journal of Neural Engineering, 2016, 13, 036018.	1.8	31
103	Specialization in multi-agent systems through learning. Biological Cybernetics, 1997, 76, 375-382.	0.6	30
104	Characterizing the EEG Correlates of Exploratory Behavior. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2008, 16, 549-556.	2.7	30
105	Hyperdimensional Computing for Blind and One-Shot Classification of EEG Error-Related Potentials. Mobile Networks and Applications, 2020, 25, 1958-1969.	2.2	30
106	The Role of the Control Framework for Continuous Teleoperation of a Brainâ€“Machine Interface-Driven Mobile Robot. IEEE Transactions on Robotics, 2020, 36, 78-91.	7.3	30
107	Noninvasive Brainâ€“Machine Interfaces for Robotic Devices. Annual Review of Control, Robotics, and Autonomous Systems, 2021, 4, 191-214.	7.5	30
108	Self-paced movement intention detection from human brain signals: Invasive and non-invasive EEG. , 2012, 2012, 3280-3.		28

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109	Freeing the visual channel by exploiting vibrotactile BCI feedback. , 2013, 2013, 3093-6.		28
110	Harnessing Prefrontal Cognitive Signals for Brainâ€“Machine Interfaces. Trends in Biotechnology, 2017, 35, 585-597.	4.9	28
111	Prospects of brainâ€“machine interfaces for space system control. Acta Astronautica, 2009, 64, 448-456.	1.7	27
112	Time-dependent approach for single trial classification of covert visuospatial attention. Journal of Neural Engineering, 2012, 9, 045011.	1.8	26
113	Learning Signaling Behaviors and Specialization in Cooperative Agents. Adaptive Behavior, 1996, 5, 5-28.	1.1	25
114	Electrically Assisted Movement Therapy in Chronic Stroke Patients With Severe Upper Limb Paresis: A Pilot, Single-Blind, Randomized Crossover Study. Archives of Physical Medicine and Rehabilitation, 2017, 98, 1628-1635.e2.	0.5	25
115	Phase-based features for motor imagery brain-computer interfaces. , 2011, 2011, 2578-81.		24
116	A hybrid BCI for enhanced control of a telepresence robot. , 2013, 2013, 3097-100.		24
117	Steering timing prediction in a driving simulator task. , 2013, 2013, 6913-6.		24
118	Comparison of different feature classifiers for brain computer interfaces. , 0, , .		23
119	Brainâ€“Computer Interfaces and Assistive Technology. The International Library of Ethics, Law and Technology, 2014, , 7-38.	0.2	23
120	Adaptive Assistance for Brain-Computer Interfaces by Online Prediction of Command Reliability. IEEE Computational Intelligence Magazine, 2016, 11, 32-39.	3.4	23
121	Brain-actuated gait trainer with visual and proprioceptive feedback. Journal of Neural Engineering, 2017, 14, 056017.	1.8	23
122	Differential contributions of subthalamic beta rhythms and 1/f broadband activity to motor symptoms in Parkinsonâ€™s disease. Npj Parkinson's Disease, 2018, 4, 32.	2.5	23
123	Peri-personal space encoding in patients with disorders of consciousness and cognitive-motor dissociation. NeuroImage: Clinical, 2019, 24, 101940.	1.4	23
124	Customizing skills for assistive robotic manipulators, an inverse reinforcement learning approach with error-related potentials. Communications Biology, 2021, 4, 1406.	2.0	23
125	Kinect=IMU? Learning MIMO Signal Mappings to Automatically Translate Activity Recognition Systems across Sensor Modalities. , 2012, , .		22
126	On the Use of Brain Decoded Signals for Online User Adaptive Gesture Recognition Systems. Lecture Notes in Computer Science, 2010, , 427-444.	1.0	22

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127	Anticipation- and error-related EEG signals during realistic human-machine interaction: A study on visual and tactile feedback. , 2012, 2012, 6723-6.		21
128	Novice Shooters With Lower Pre-shooting Alpha Power Have Better Performance During Competition in a Virtual Reality Scenario. Frontiers in Psychology, 2018, 9, 527.	1.1	21
129	Decoding Neural Correlates of Cognitive States to Enhance Driving Experience. IEEE Transactions on Emerging Topics in Computational Intelligence, 2018, 2, 288-297.	3.4	21
130	A Reinforcement Connectionist Approach to Robot Path Finding in Non-Maze-Like Environments. Machine Learning, 1992, 8, 363-395.	3.4	20
131	On the road to a neuroprosthetic hand: A novel hand grasp orthosis based on functional electrical stimulation. , 2010, 2010, 146-9.		20
132	The birth of the brain-controlled wheelchair. , 2012, , .		20
133	Detecting intention to grasp during reaching movements from EEG. , 2015, 2015, 1115-8.		20
134	Discriminant brain connectivity patterns of performance monitoring at average and single-trial levels. NeuroImage, 2015, 120, 64-74.	2.1	20
135	Action Monitoring Cortical Activity Coupled to Submovements. ENeuro, 2017, 4, ENEURO.0241-17.2017.	0.9	20
136	Decoding of Self-paced Lower-Limb Movement Intention: A Case Study on the Influence Factors. Frontiers in Human Neuroscience, 2017, 11, 560.	1.0	19
137	An Iterative Framework for EEG-based Image Search: Robust Retrieval with Weak Classifiers. PLoS ONE, 2013, 8, e72018.	1.1	18
138	Robot arm reaching through neural inversions and reinforcement learning. Robotics and Autonomous Systems, 2000, 31, 227-246.	3.0	17
139	Detecting and Rectifying Anomalies in Body Sensor Networks. , 2011, , .		17
140	Online modulation of the level of assistance in shared control systems. , 2012, , .		17
141	Brain Recording, Mind-Reading, and Neurotechnology: Ethical Issues from Consumer Devices to Brain-Based Speech Decoding. Science and Engineering Ethics, 2020, 26, 2295-2311.	1.7	17
142	Unsupervised Adaptation to On-body Sensor Displacement in Acceleration-Based Activity Recognition. , 2011, , .		16
143	Inferring subjective preferences on robot trajectories using EEG signals. , 2019, , .		16
144	Uncovering EEG Correlates of Covert Attention in Soccer Goalkeepers: Towards Innovative Sport Training Procedures. Scientific Reports, 2020, 10, 1705.	1.6	16

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145	To Err is Human: Learning from Error Potentials in Brain-Computer Interfaces. , 2008, , 777-782.		15
146	Brain-Machine Interfaces: The Perception-Action Closed Loop: A Two-Learner System. IEEE Systems, Man, and Cybernetics Magazine, 2015, 1, 6-8.	1.2	15
147	Adaptation of hybrid human-computer interaction systems using EEG error-related potentials. , 2010, 2010, 4226-9.		14
148	Single trial recognition of anticipatory slow cortical potentials: The role of spatio-spectral filtering. , 2011, , .		14
149	Detecting anomalies to improve classification performance in opportunistic sensor networks. , 2011, , .		14
150	Plug&Play Brainâ€“Computer Interfaces for effective Active and Assisted Living control. Medical and Biological Engineering and Computing, 2017, 55, 1339-1352.	1.6	14
151	Recent and Upcoming BCI Progress: Overview, Analysis, and Recommendations. Biological and Medical Physics Series, 2012, , 1-13.	0.3	13
152	Brain racers. IEEE Spectrum, 2017, 54, 44-51.	0.5	13
153	Ensemble creation and reconfiguration for activity recognition: An information theoretic approach. , 2011, , .		12
154	Improved recognition of error related potentials through the use of brain connectivity features. , 2012, 2012, 6740-3.		12
155	Spatial covariance improves BCI performance for late ERPs components with high temporal variability. Journal of Neural Engineering, 2020, 17, 036030.	1.8	12
156	A comparative psychophysical and EEG study of different feedback modalities for HRI. , 2008, , .		11
157	Chapter 14 Validation of Brainâ€“Machine Interfaces During Parabolic Flight. International Review of Neurobiology, 2009, 86, 189-197.	0.9	11
158	Improving Skills and Perception in Robot Navigation by an Augmented Virtuality Assistance System. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 76, 255-266.	2.0	11
159	Spatial filters yield stable features for error-related potentials across conditions. , 2016, , .		11
160	EEG Correlates of Difficulty Levels in Dynamical Transitions of Simulated Flying and Mapping Tasks. IEEE Transactions on Human-Machine Systems, 2021, 51, 99-108.	2.5	11
161	Invariability of EEG error-related potentials during continuous feedback protocols elicited by erroneous actions at predicted or unpredicted states. Journal of Neural Engineering, 2021, 18, 046044.	1.8	11
162	An EEG-based brain-computer interface for gait training. , 2017, , .		11

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163	Activity Recognition in Opportunistic Sensor Environments. Procedia Computer Science, 2011, 7, 173-174.	1.2	10
164	Offline decoding of upper limb muscle synergies from EEG slow cortical potentials. , 2013, 2013, 3594-7.		10
165	Behavioral and Cortical Effects during Attention Driven Brain-Computer Interface Operations in Spatial Neglect: A Feasibility Case Study. Frontiers in Human Neuroscience, 2017, 11, 336.	1.0	10
166	General principles of machine learning for brain-computer interfacing. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 168, 311-328.	1.0	10
167	User Adaptation to Closed-Loop Decoding of Motor Imagery Termination. IEEE Transactions on Biomedical Engineering, 2021, 68, 3-10.	2.5	10
168	Learning reaching strategies through reinforcement for a sensor-based manipulator. Neural Networks, 1998, 11, 359-376.	3.3	9
169	Subject-oriented training for motor imagery brain-computer interfaces. , 2014, 2014, 1259-62.		9
170	Quantifying Electrode Reliability During Brainâ€“Computer Interface Operation. IEEE Transactions on Biomedical Engineering, 2015, 62, 858-864.	2.5	9
171	ROS-health: An open-source framework for neurorobotics. , 2018, , .		9
172	ROS-Neuro: A common middleware for BMI and robotics. The acquisition and recorder packages. , 2019, , .		9
173	Real-time EEG Feedback on Alpha Power Lateralization Leads to Behavioral Improvements in a Covert Attention Task. Brain Topography, 2020, 33, 48-59.	0.8	9
174	On Error-Related Potentials During Sensorimotor-Based Brain-Computer Interface: Explorations With a Pseudo-Online Brain-Controlled Speller. IEEE Open Journal of Engineering in Medicine and Biology, 2020, 1, 17-22.	1.7	9
175	Sport Psychology: Technologies Ahead. Frontiers in Sports and Active Living, 2020, 2, 10.	0.9	9
176	Shared Intelligence for Robot Teleoperation via BMI. IEEE Transactions on Human-Machine Systems, 2022, 52, 400-409.	2.5	9
177	Preliminary Experimentation on Vibrotactile Feedback in the context of Mu-rhythm Based BCI. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4739-42.	0.5	8
178	Cortical current density vs. surface EEG for event-related potential-based Brain-Computer Interface. , 2011, , .		8
179	Dynamic Quantification of Activity Recognition Capabilities in Opportunistic Systems. , 2011, , .		8
180	Three-dimensional upper limb movement decoding from EEG signals. , 2013, , .		8

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181	Inferring driver's turning direction through detection of error related brain activity. , 2013, 2013, 2196-9.		8
182	Evaluation of proportional and discrete shared control paradigms for low resolution user inputs. , 2011, , .		7
183	Minimizing calibration time using inter-subject information of single-trial recognition of error potentials in brain-computer interfaces. , 2011, 2011, 6369-72.		7
184	Rewards-driven control of robot arm by decoding EEG signals. , 2014, 2014, 1658-61.		7
185	Brain Correlates of Lane Changing Reaction Time in Simulated Driving. , 2015, , .		7
186	The OPPORTUNITY Framework and Data Processing Ecosystem for Opportunistic Activity and Context Recognition. International Journal of Sensors, Wireless Communications and Control, 2012, 1, 102-125.	0.5	7
187	Neural networks for robust classification of mental tasks. , 0, , .		6
188	Bayesian plan recognition for Brain-Computer Interfaces. , 2009, , .		6
189	EEG error-related potentials detection with a Bayesian filter. , 2009, , .		6
190	Anticipation based Brain-Computer Interfacing (aBCI). , 2009, , .		6
191	Making the most of context-awareness in brain-computer interfaces. , 2013, , .		6
192	EEG correlates of active visual search during simulated driving: An exploratory study. , 2014, , .		6
193	Modular organization of reaching and grasping movements investigated using EEG microstates. , 2014, 2014, 2093-6.		6
194	Decoding fast-paced error-related potentials in monitoring protocols. , 2015, 2015, 1111-4.		6
195	Endogenous Control of Powered Lower-Limb Exoskeleton. Biosystems and Biorobotics, 2017, , 115-119.	0.2	6
196	Using Robust Principal Component Analysis to Reduce EEG Intra-Trial Variability. , 2018, 2018, 1956-1959.		6
197	Brain-computer interfaces for stroke rehabilitation: summary of the 2016 BCI Meeting in Asilomar. Brain-Computer Interfaces, 2018, 5, 41-57.	0.9	6
198	Learning to Avoid Obstacles through Reinforcement. , 1991, , 298-302.		6

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199	Discriminative channel selection method for the recognition of anticipation related potentials from CCD estimated cortical activity. , 2009, , .		5
200	Learning user habits for semi-autonomous navigation using low throughput interfaces. , 2011, , .		5
201	Interaction and evaluation of an augmented virtuality assistance system for teleoperated robots. , 2012, , .		5
202	Evaluating decoding performance of upper limb imagined trajectories during center-out reaching tasks. , 2016, , .		5
203	Using Coherence-based spectro-spatial filters for stimulus features prediction from electro-corticographic recordings. Scientific Reports, 2020, 10, 7637.	1.6	5
204	tDCS Modulates Motor Imagery-Related BCI Features. Biosystems and Biorobotics, 2013, , 647-651.	0.2	5
205	Real-time prediction of fast and slow delivery of mental commands in a motor imagery BCI: An entropy-based approach. , 2012, , .		4
206	Quantification and reduction of visual load during BCI operation. , 2014, , .		4
207	Superposition model for Steady State Visually Evoked Potentials. , 2016, , .		4
208	Analysis of EEG Correlates of Perceived Difficulty in Dynamically Changing Flying Tasks. , 2018, , .		4
209	Context-Aware Learning for Generative Models. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3471-3483.	7.2	4
210	Efficient reinforcement learning of navigation strategies in an autonomous robot. , 1995, , 185-199.		4
211	The human-computer connection: An overview of brain-computer interfaces. Metode, 2018, , .	0.0	4
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