

Jose Del R Millan

List of Publications by Year in descending order

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246
papers

15,049
citations

31902

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25716

108
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257
all docs

257
docs citations

257
times ranked

9642
citing authors

#	ARTICLE	IF	CITATIONS
1	EEG-Based Online Regulation of Difficulty in Simulated Flying. IEEE Transactions on Affective Computing, 2023, 14, 394-405.	5.7	3
2	Imagined speech can be decoded from low- and cross-frequency intracranial EEG features. Nature Communications, 2022, 13, 48.	5.8	50
3	Shared Intelligence for Robot Teleoperation via BMI. IEEE Transactions on Human-Machine Systems, 2022, 52, 400-409.	2.5	9
4	Context-Aware Learning for Generative Models. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3471-3483.	7.2	4
5	User Adaptation to Closed-Loop Decoding of Motor Imagery Termination. IEEE Transactions on Biomedical Engineering, 2021, 68, 3-10.	2.5	10
6	Noninvasive Brain-Machine Interfaces for Robotic Devices. Annual Review of Control, Robotics, and Autonomous Systems, 2021, 4, 191-214.	7.5	30
7	Closed-loop EEG study on visual recognition during driving. Journal of Neural Engineering, 2021, 18, 026010.	1.8	2
8	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
9	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
10	Gender bias in academia: A lifetime problem that needs solutions. Neuron, 2021, 109, 2047-2074.	3.8	106
11	Customizing skills for assistive robotic manipulators, an inverse reinforcement learning approach with error-related potentials. Communications Biology, 2021, 4, 1406.	2.0	23
12	Hyperdimensional Computing for Blind and One-Shot Classification of EEG Error-Related Potentials. Mobile Networks and Applications, 2020, 25, 1958-1969.	2.2	30
13	The Role of the Control Framework for Continuous Teleoperation of a Brain-Machine Interface-Driven Mobile Robot. IEEE Transactions on Robotics, 2020, 36, 78-91.	7.3	30
14	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
15	Brain-Machine Interfaces: A Tale of Two Learners. IEEE Systems, Man, and Cybernetics Magazine, 2020, 6, 12-19.	1.2	45
16	Using Coherence-based spectro-spatial filters for stimulus features prediction from electro-corticographic recordings. Scientific Reports, 2020, 10, 7637.	1.6	5
17	Preface. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 168, ix-x.	1.0	3
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Sport Psychology: Technologies Ahead. Frontiers in Sports and Active Living, 2020, 2, 10.	0.9	9
23	Uncovering EEG Correlates of Covert Attention in Soccer Goalkeepers: Towards Innovative Sport Training Procedures. Scientific Reports, 2020, 10, 1705.	1.6	16
24	Brain-machine interfaces. , 2020, , 1037-1045.		0
25	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
26	Spatial covariance improves BCI performance for late ERPs components with high temporal variability. Journal of Neural Engineering, 2020, 17, 036030.	1.8	12
27	Neurotechnology-aided interventions for upper limb motor rehabilitation in severe chronic stroke. Brain, 2019, 142, 2182-2197.	3.7	138
28	Inferring subjective preferences on robot trajectories using EEG signals. , 2019, , .		16
29	Reliable decoding of motor state transitions during imagined movement. , 2019, , .		3
30	Peri-personal space encoding in patients with disorders of consciousness and cognitive-motor dissociation. Neurolmage: Clinical, 2019, 24, 101940.	1.4	23
31	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
32	ROS-Neuro: A common middleware for BMI and robotics. The acquisition and recorder packages. , 2019, , .		9
33	The use of intracranial recordings to decode human language: Challenges and opportunities. Brain and Language, 2019, 193, 73-83.	0.8	34
34	Brain-computer interfaces for post-stroke motor rehabilitation: a meta-analysis. Annals of Clinical and Translational Neurology, 2018, 5, 651-663.	1.7	300
35	Neural Encoding of Auditory Features during Music Perception and Imagery. Cerebral Cortex, 2018, 28, 4222-4233.	1.6	35
36	Sensory threshold neuromuscular electrical stimulation fosters motor imagery performance. Neurolmage, 2018, 176, 268-276.	2.1	47

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37	mano: A Wearable Hand Exoskeleton for Activities of Daily Living and Neurorehabilitation. IEEE Robotics and Automation Letters, 2018, 3, 500-507.	3.3	101
38	Analysis of EEG Correlates of Perceived Difficulty in Dynamically Changing Flying Tasks. , 2018, , .		4
39	Motor Attempt EEG Paradigm as a Diagnostic Tool for Disorders of Consciousness. , 2018, 2018, 4681-4684.		3
40	Using Robust Principal Component Analysis to Reduce EEG Intra-Trial Variability. , 2018, 2018, 1956-1959.		6
41	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
42	Closed-loop electrical neurostimulation: Challenges and opportunities. Current Opinion in Biomedical Engineering, 2018, 8, 28-37.	1.8	38
43	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
44	Human EEG reveals distinct neural correlates of power and precision grasping types. NeuroImage, 2018, 181, 635-644.	2.1	47
45	Brain-computer interfaces for stroke rehabilitation: summary of the 2016 BCI Meeting in Asilomar. Brain-Computer Interfaces, 2018, 5, 41-57.	0.9	6
46	Decoding Inner Speech Using Electrocorticography: Progress and Challenges Toward a Speech Prosthesis. Frontiers in Neuroscience, 2018, 12, 422.	1.4	68
47	The Cybathlon BCI race: Successful longitudinal mutual learning with two tetraplegic users. PLoS Biology, 2018, 16, e2003787.	2.6	111
48	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
49	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
50	ROS-health: An open-source framework for neurorobotics. , 2018, , .		9
51	Brain-actuated functional electrical stimulation elicits lasting arm motor recovery after stroke. Nature Communications, 2018, 9, 2421.	5.8	342
52	The human-computer connection: An overview of brain-computer interfaces. Metode, 2018, , .	0.0	4
53	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
54	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

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55	Harnessing Prefrontal Cognitive Signals for Brain-Computer Interfaces. Trends in Biotechnology, 2017, 35, 585-597.	4.9	28
56	Cortical and subcortical mechanisms of brain-machine interfaces. Human Brain Mapping, 2017, 38, 2971-2989.	1.9	36
57	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
58	EEG topographies provide subject-specific correlates of motor control. Scientific Reports, 2017, 7, 13229.	1.6	35
59	Brain racers. IEEE Spectrum, 2017, 54, 44-51.	0.5	13
60	Brain-actuated gait trainer with visual and proprioceptive feedback. Journal of Neural Engineering, 2017, 14, 056017.	1.8	23
61	An Approach to a Phase Model for Steady State Visually Evoked Potentials. Biosystems and Biorobotics, 2017, , 1481-1489.	0.2	0
62	Plug&Play Brain-Computer Interfaces for effective Active and Assisted Living control. Medical and Biological Engineering and Computing, 2017, 55, 1339-1352.	1.6	14
63	A brain-controlled exoskeleton with cascaded event-related desynchronization classifiers. Robotics and Autonomous Systems, 2017, 90, 15-23.	3.0	107
64	Endogenous Control of Powered Lower-Limb Exoskeleton. Biosystems and Biorobotics, 2017, , 115-119.	0.2	6
65	Inverse solutions for brain-computer interfaces: Effects of regularisation on localisation and classification. , 2017, , .		1
66	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
67	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
68	Encoding and Decoding Models in Cognitive Electrophysiology. Frontiers in Systems Neuroscience, 2017, 11, 61.	1.2	116
69	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
70	An EEG-based brain-computer interface for gait training. , 2017, , .		11
71	Action Monitoring Cortical Activity Coupled to Submovements. ENeuro, 2017, 4, ENEURO.0241-17.2017.	0.9	20
72	Hyperdimensional Computing for Noninvasive Brain-Computer Interfaces: Blind and One-Shot Classification of EEG Error-Related Potentials. , 2017, , .		36

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73	Superposition model for Steady State Visually Evoked Potentials. , 2016, , .		4
74	Evaluating decoding performance of upper limb imagined trajectories during center-out reaching tasks. , 2016, , .		5
75	Spatial filters yield stable features for error-related potentials across conditions. , 2016, , .		11
76	Brain-controlled devices: the perception-action closed loop. , 2016, , .		1
77	Context-aware adaptive spelling in motor imagery BCI. Journal of Neural Engineering, 2016, 13, 036018.	1.8	31
78	Stream fusion for multi-stream automatic speech recognition. International Journal of Speech Technology, 2016, 19, 669-675.	1.4	0
79	Detection of movement related cortical potential: Effects of causal vs. non-causal processing. , 2016, 2016, 5733-5736.		0
80	Word pair classification during imagined speech using direct brain recordings. Scientific Reports, 2016, 6, 25803.	1.6	113
81	Adaptive Assistance for Brain-Computer Interfaces by Online Prediction of Command Reliability. IEEE Computational Intelligence Magazine, 2016, 11, 32-39.	3.4	23
82	The effect of multimodal and enriched feedback on SMR-BCI performance. Clinical Neurophysiology, 2016, 127, 490-498.	0.7	50
83	Action prediction based on anticipatory brain potentials during simulated driving. Journal of Neural Engineering, 2015, 12, 066006.	1.8	42
84	Teaching brain-machine interfaces as an alternative paradigm to neuroprosthetics control. Scientific Reports, 2015, 5, 13893.	1.6	119
85	Towards Noninvasive Hybrid Brain-Computer Interfaces: Framework, Practice, Clinical Application, and Beyond. Proceedings of the IEEE, 2015, 103, 926-943.	16.4	133
86	Towards Independence: A BCI Telepresence Robot for People With Severe Motor Disabilities. Proceedings of the IEEE, 2015, 103, 969-982.	16.4	150
87	The Plurality of Human Brain-Computer Interfacing [Scanning the Issue]. Proceedings of the IEEE, 2015, 103, 868-870.	16.4	3
88	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
89	Brain Correlates of Lane Changing Reaction Time in Simulated Driving. , 2015, , .		7
90	Decoding fast-paced error-related potentials in monitoring protocols. , 2015, 2015, 1111-4.		6

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91	EEG-based decoding of error-related brain activity in a real-world driving task. Journal of Neural Engineering, 2015, 12, 066028.	1.8	84
92	Detecting intention to grasp during reaching movements from EEG. , 2015, 2015, 1115-8.		20
93	Modulation of the inter-hemispheric asymmetry of motor-related brain activity using brain-computer interfaces. , 2015, 2015, 2319-22.		2
94	BNCI Horizon 2020: towards a roadmap for the BCI community. Brain-Computer Interfaces, 2015, 2, 1-10.	0.9	169
95	Quantifying Electrode Reliability During Brain-Computer Interface Operation. IEEE Transactions on Biomedical Engineering, 2015, 62, 858-864.	2.5	9
96	Discriminant brain connectivity patterns of performance monitoring at average and single-trial levels. NeuroImage, 2015, 120, 64-74.	2.1	20
97	Control strategies for active lower extremity prosthetics and orthotics: a review. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 1.	2.4	773
98	Errare machinale est: the use of error-related potentials in brain-machine interfaces. Frontiers in Neuroscience, 2014, 8, 208.	1.4	216
99	Latency correction of event-related potentials between different experimental protocols. Journal of Neural Engineering, 2014, 11, 036005.	1.8	41
100	Rewards-driven control of robot arm by decoding EEG signals. , 2014, 2014, 1658-61.		7
101	Clinical evaluation of BrainTree, a motor imagery hybrid BCI speller. Journal of Neural Engineering, 2014, 11, 036003.	1.8	61
102	Prediction of command delivery time for BCI. , 2014, , .		0
103	Quantification and reduction of visual load during BCI operation. , 2014, , .		4
104	EEG correlates of active visual search during simulated driving: An exploratory study. , 2014, , .		6
105	Modular organization of reaching and grasping movements investigated using EEG microstates. , 2014, 2014, 2093-6.		6
106	Subject-oriented training for motor imagery brain-computer interfaces. , 2014, 2014, 1259-62.		9
107	BMI: Lessons from tests with impaired users. , 2014, , .		2
108	Brain-Machine Interfaces. , 2014, , 1343-1352.		1

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109	Brainâ€“Computer Interfaces and Assistive Technology. The International Library of Ethics, Law and Technology, 2014, , 7-38.	0.2	23
110	Corticospinal neuroprostheses to restore locomotion after spinal cord injury. Neuroscience Research, 2014, 78, 21-29.	1.0	47
111	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
112	Decoding spectrotemporal features of overt and covert speech from the human cortex. Frontiers in Neuroengineering, 2014, 7, 14.	4.8	144
113	Single trial prediction of self-paced reaching directions from EEG signals. Frontiers in Neuroscience, 2014, 8, 222.	1.4	60
114	Three-dimensional upper limb movement decoding from EEG signals. , 2013, , .		8
115	Unsupervised adaptation for acceleration-based activity recognition: robustness to sensor displacement and rotation. Personal and Ubiquitous Computing, 2013, 17, 479-490.	1.9	44
116	Personalized Neuroprosthetics. Science Translational Medicine, 2013, 5, 210rv2.	5.8	141
117	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
118	A novel tactile stimulation system for BCI feedback. , 2013, , .		1
119	Robust activity recognition combining anomaly detection and classifier retraining. , 2013, , .		1
120	Brainâ€“machine interface: closer to therapeutic reality?. Lancet, The, 2013, 381, 515-517.	6.3	32
121	An online EEG BCI based on covert visuospatial attention in absence of exogenous stimulation. Journal of Neural Engineering, 2013, 10, 056007.	1.8	42
122	The Opportunity challenge: A benchmark database for on-body sensor-based activity recognition. Pattern Recognition Letters, 2013, 34, 2033-2042.	2.6	508
123	Opportunistic human activity and context recognition. Computer, 2013, 46, 36-45.	1.2	70
124	On-line anomaly detection and resilience in classifier ensembles. Pattern Recognition Letters, 2013, 34, 1916-1927.	2.6	37
125	Brain-Controlled Wheelchairs: A Robotic Architecture. IEEE Robotics and Automation Magazine, 2013, 20, 65-73.	2.2	337
126	Making the most of context-awareness in brain-computer interfaces. , 2013, , .		6

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127	A hybrid BCI for enhanced control of a telepresence robot. , 2013, 2013, 3097-100.		24
128	Steering timing prediction in a driving simulator task. , 2013, 2013, 6913-6.		24
129	Freeing the visual channel by exploiting vibrotactile BCI feedback. , 2013, 2013, 3093-6.		28
130	Offline decoding of upper limb muscle synergies from EEG slow cortical potentials. , 2013, 2013, 3594-7.		10
131	Single trial analysis of slow cortical potentials: a study on anticipation related potentials. Journal of Neural Engineering, 2013, 10, 036014.	1.8	70
132	Inferring driver's turning direction through detection of error related brain activity. , 2013, 2013, 2196-9.		8
133	tDCS Modulates Motor Imagery-Related BCI Features. Biosystems and Biorobotics, 2013, , 647-651.	0.2	5
134	An Iterative Framework for EEG-based Image Search: Robust Retrieval with Weak Classifiers. PLoS ONE, 2013, 8, e72018.	1.1	18
135	Improved recognition of error related potentials through the use of brain connectivity features. , 2012, 2012, 6740-3.		12
136	Anticipation- and error-related EEG signals during realistic human-machine interaction: A study on visual and tactile feedback. , 2012, 2012, 6723-6.		21
137	Detection of anticipatory brain potentials during car driving. , 2012, 2012, 3829-32.		34
138	Real-time prediction of fast and slow delivery of mental commands in a motor imagery BCI: An entropy-based approach. , 2012, , .		4
139	The birth of the brain-controlled wheelchair. , 2012, , .		20
140	Online modulation of the level of assistance in shared control systems. , 2012, , .		17
141	Kinect=IMU? Learning MIMO Signal Mappings to Automatically Translate Activity Recognition Systems across Sensor Modalities. , 2012, , .		22
142	Latency correction of error potentials between different experiments reduces calibration time for single-trial classification. , 2012, 2012, 3288-91.		35
143	Self-paced movement intention detection from human brain signals: Invasive and non-invasive EEG. , 2012, 2012, 3280-3.		28
144	Time-dependent approach for single trial classification of covert visuospatial attention. Journal of Neural Engineering, 2012, 9, 045011.	1.8	26

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145	Interaction and evaluation of an augmented virtuality assistance system for teleoperated robots. , 2012, , .		5
146	EEG-based Brain-Computer Interface to support post-stroke motor rehabilitation of the upper limb. , 2012, 2012, 4112-5.		76
147	Recent and Upcoming BCI Progress: Overview, Analysis, and Recommendations. Biological and Medical Physics Series, 2012, , 1-13.	0.3	13
148	The timing of exploratory decision-making revealed by single-trial topographic EEGanalyses. NeuroImage, 2012, 60, 1959-1969.	2.1	34
149	Detection of self-paced reaching movement intention from EEG signals. Frontiers in Neuroengineering, 2012, 5, 13.	4.8	177
150	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
151	Brainâ€“Computer Interfaces. , 2012, , 37-51.		0
152	Cortical current density vs. surface EEG for event-related potential-based Brain-Computer Interface. , 2011, , .		8
153	Learning user habits for semi-autonomous navigation using low throughput interfaces. , 2011, , .		5
154	Single trial recognition of anticipatory slow cortical potentials: The role of spatio-spectral filtering. , 2011, , .		14
155	Detecting anomalies to improve classification performance in opportunistic sensor networks. , 2011, , .		14
156	Dynamic Quantification of Activity Recognition Capabilities in Opportunistic Systems. , 2011, , .		8
157	Combining discriminant and topographic information in BCI: Preliminary results on stroke patients. , 2011, , .		3
158	A hybrid brainâ€“computer interface based on the fusion of electroencephalographic and electromyographic activities. Journal of Neural Engineering, 2011, 8, 025011.	1.8	177
159	Phase-based features for motor imagery brain-computer interfaces. , 2011, 2011, 2578-81.		24
160	Unsupervised Adaptation to On-body Sensor Displacement in Acceleration-Based Activity Recognition. , 2011, , .		16
161	Activity Recognition in Opportunistic Sensor Environments. Procedia Computer Science, 2011, 7, 173-174.	1.2	10
162	Brainâ€“computer interfaces for space applications. Personal and Ubiquitous Computing, 2011, 15, 527-537.	1.9	66

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163	Detecting and Rectifying Anomalies in Body Sensor Networks. , 2011, , .		17
164	Brain-controlled telepresence robot by motor-disabled people. , 2011, 2011, 4227-30.		85
165	Benchmarking classification techniques using the Opportunity human activity dataset. , 2011, , .		67
166	Ensemble creation and reconfiguration for activity recognition: An information theoretic approach. , 2011, , .		12
167	Evaluation of proportional and discrete shared control paradigms for low resolution user inputs. , 2011, , .		7
168	Tools for brain-computer interaction: a general concept for a hybrid BCI. Frontiers in Neuroinformatics, 2011, 5, 30.	1.3	121
169	Minimizing calibration time using inter-subject information of single-trial recognition of error potentials in brain-computer interfaces. , 2011, 2011, 6369-72.		7
170	Combining brain-computer interfaces and assistive technologies: state-of-the-art and challenges. Frontiers in Neuroscience, 2010, 1, .	1.4	476
171	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
172	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
173	Brain-coupled interaction for semi-autonomous navigation of an assistive robot. Robotics and Autonomous Systems, 2010, 58, 1246-1255.	3.0	90
174	Adaptation of hybrid human-computer interaction systems using EEG error-related potentials. , 2010, 2010, 4226-9.		14
175	Towards natural non-invasive hand neuroprostheses for daily living. , 2010, 2010, 126-9.		37
176	Multimodal Fusion of Muscle and Brain Signals for a Hybrid-BCI. , 2010, 2010, 4343-6.		54
177	Collecting complex activity datasets in highly rich networked sensor environments. , 2010, , .		401
178	On the road to a neuroprosthetic hand: A novel hand grasp orthosis based on functional electrical stimulation. , 2010, 2010, 146-9.		20
179	The role of shared-control in BCI-based telepresence. , 2010, , .		85
180	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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181	Bayesian plan recognition for Brain-Computer Interfaces. , 2009, , .		6
182	Chapter 14 Validation of Brain-Machine Interfaces During Parabolic Flight. International Review of Neurobiology, 2009, 86, 189-197.	0.9	11
183	Fast Recognition of Anticipation-Related Potentials. IEEE Transactions on Biomedical Engineering, 2009, 56, 1257-1260.	2.5	31
184	Neural Engineering: EPFL Center for Neuroprosthetics. IEEE Engineering in Medicine and Biology Magazine, 2009, 28, 60-61.	1.1	0
185	Prospects of brain-machine interfaces for space system control. Acta Astronautica, 2009, 64, 448-456.	1.7	27
186	Asynchronous non-invasive brain-actuated control of an intelligent wheelchair. , 2009, 2009, 3361-4.		96
187	Discriminative channel selection method for the recognition of anticipation related potentials from CCD estimated cortical activity. , 2009, , .		5
188	OPPORTUNITY: Towards opportunistic activity and context recognition systems. , 2009, , .		55
189	EEG error-related potentials detection with a Bayesian filter. , 2009, , .		6
190	Anticipation based Brain-Computer Interfacing (aBCI). , 2009, , .		6
191	High-resolution EEG techniques for brain-computer interface applications. Journal of Neuroscience Methods, 2008, 167, 31-42.	1.3	98
192	Brain-Computer Interfacing for Intelligent Systems. IEEE Intelligent Systems, 2008, 23, 72-79.	4.0	218
193	Error-Related EEG Potentials Generated During Simulated Brain-Computer Interaction. IEEE Transactions on Biomedical Engineering, 2008, 55, 923-929.	2.5	278
194	Characterizing the EEG Correlates of Exploratory Behavior. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2008, 16, 549-556.	2.7	30
195	A brain-actuated wheelchair: Asynchronous and non-invasive Brain-computer interfaces for continuous control of robots. Clinical Neurophysiology, 2008, 119, 2159-2169.	0.7	656
196	NON-INVASIVE BRAIN-MACHINE INTERACTION. International Journal of Pattern Recognition and Artificial Intelligence, 2008, 22, 959-972.	0.7	83
197	To Err is Human: Learning from Error Potentials in Brain-Computer Interfaces. , 2008, , 777-782.		15
198	Brain-computer interfaces for hci and games. , 2008, , .		44

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199	A comparative psychophysical and EEG study of different feedback modalities for HRI. , 2008, , .		11
200	The Use of Brain-Computer Interfacing in Ambient Intelligence. Communications in Computer and Information Science, 2008, , 268-285.	0.4	4
201	Visuo-Spatial Attention Frame Recognition for Brain-Computer Interfaces. , 2008, , 771-775.		2
202	Vibrotactile Feedback for Brain-Computer Interface Operation. Computational Intelligence and Neuroscience, 2007, 2007, 1-12.	1.1	122
203	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
204	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
205	Feature Extraction for Multi-class BCI using Canonical Variates Analysis. , 2007, , .		40
206	Adaptive Shared Control of a Brain-Actuated Simulated Wheelchair. , 2007, , .		114
207	Context-Based Filtering for Assisted Brain-Actuated Wheelchair Driving. Computational Intelligence and Neuroscience, 2007, 2007, 1-12.	1.1	94
208	Non-invasive Brain-Actuated Interaction. Lecture Notes in Computer Science, 2007, , 438-447.	1.0	3
209	Very high frequency oscillations (VHFO) as a predictor of movement intentions. NeuroImage, 2006, 32, 170-179.	2.1	48
210	Towards a robust BCI: error potentials and online learning. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 164-168.	2.7	149
211	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
212	Brain-computer interaction. , 2006, , .		2
213	Prospective on Brain Machine Interfaces for Space System Control. , 2006, , .		2
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