

Jose Del R Millan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

249
papers

10,525
citations

54
h-index

97
g-index

257
ext. papers

12,905
ext. citations

4.1
avg. IF

6.47
L-index

#	Paper	IF	Citations
249	Shared Intelligence for Robot Teleoperation via BMI. <i>IEEE Transactions on Human-Machine Systems</i> , 2022 , 1-10	4.1	4
248	Imagined speech can be decoded from low- and cross-frequency intracranial EEG features.. <i>Nature Communications</i> , 2022 , 13, 48	17.4	6
247	Context-Aware Learning for Generative Models. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 3471-3483	10.3	3
246	EEG Correlates of Difficulty Levels in Dynamical Transitions of Simulated Flying and Mapping Tasks. <i>IEEE Transactions on Human-Machine Systems</i> , 2021 , 51, 99-108	4.1	2
245	Invariability of EEG error-related potentials during continuous feedback protocols elicited by erroneous actions at predicted or unpredicted states. <i>Journal of Neural Engineering</i> , 2021 , 18,	5	2
244	User Adaptation to Closed-Loop Decoding of Motor Imagery Termination. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 3-10	5	2
243	Noninvasive BrainMachine Interfaces for Robotic Devices. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , 2021 , 4, 191-214	11.8	9
242	Closed-loop EEG study on visual recognition during driving. <i>Journal of Neural Engineering</i> , 2021 ,	5	2
241	Gender bias in academia: A lifetime problem that needs solutions. <i>Neuron</i> , 2021 , 109, 2047-2074	13.9	11
240	EEG-Based Online Regulation of Difficulty in Simulated Flying. <i>IEEE Transactions on Affective Computing</i> , 2021 , 1-1	5.7	1
239	Customizing skills for assistive robotic manipulators, an inverse reinforcement learning approach with error-related potentials.. <i>Communications Biology</i> , 2021 , 4, 1406	6.7	1
238	Using Coherence-based spectro-spatial filters for stimulus features prediction from electro-corticographic recordings. <i>Scientific Reports</i> , 2020 , 10, 7637	4.9	3
237	Brain-computer interfaces: Definitions and principles. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2020 , 168, 15-23	3	12
236	General principles of machine learning for brain-computer interfacing. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2020 , 168, 311-328	3	3
235	Brain Recording, Mind-Reading, and Neurotechnology: Ethical Issues from Consumer Devices to Brain-Based Speech Decoding. <i>Science and Engineering Ethics</i> , 2020 , 26, 2295-2311	3.1	5
234	On Error-Related Potentials During Sensorimotor-Based Brain-Computer Interface: Explorations With a Pseudo-Online Brain-Controlled Speller.. <i>IEEE Open Journal of Engineering in Medicine and Biology</i> , 2020 , 1, 17-22	5.9	2
233	Sport Psychology: Technologies Ahead. <i>Frontiers in Sports and Active Living</i> , 2020 , 2, 10	2.3	4

232	Uncovering EEG Correlates of Covert Attention in Soccer Goalkeepers: Towards Innovative Sport Training Procedures. <i>Scientific Reports</i> , 2020 , 10, 1705	4.9	12
231	Brain-machine interfaces 2020 , 1037-1045		
230	Disentangling the origins of confidence in speeded perceptual judgments through multimodal imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 8382-8390	11.5	22
229	Spatial covariance improves BCI performance for late ERPs components with high temporal variability. <i>Journal of Neural Engineering</i> , 2020 , 17, 036030	5	6
228	Brain-Machine Interfaces: A Tale of Two Learners. <i>IEEE Systems, Man, and Cybernetics Magazine</i> , 2020 , 6, 12-19	1.6	14
227	Hyperdimensional Computing for Blind and One-Shot Classification of EEG Error-Related Potentials. <i>Mobile Networks and Applications</i> , 2020 , 25, 1958-1969	2.9	18
226	. <i>IEEE Transactions on Robotics</i> , 2020 , 36, 78-91	6.5	15
225	Real-time EEG Feedback on Alpha Power Lateralization Leads to Behavioral Improvements in a Covert Attention Task. <i>Brain Topography</i> , 2020 , 33, 48-59	4.3	2
224	Inferring subjective preferences on robot trajectories using EEG signals 2019 ,		7
223	Reliable decoding of motor state transitions during imagined movement 2019 ,		3
222	Peri-personal space encoding in patients with disorders of consciousness and cognitive-motor dissociation. <i>NeuroImage: Clinical</i> , 2019 , 24, 101940	5.3	17
221	Cortico-Muscular Coherence Is Reduced Acutely Post-stroke and Increases Bilaterally During Motor Recovery: A Pilot Study. <i>Frontiers in Neurology</i> , 2019 , 10, 126	4.1	15
220	Neurotechnology-aided interventions for upper limb motor rehabilitation in severe chronic stroke. <i>Brain</i> , 2019 , 142, 2182-2197	11.2	68
219	ROS-Neuro: A common middleware for BMI and robotics. The acquisition and recorder packages 2019 ,		3
218	The use of intracranial recordings to decode human language: Challenges and opportunities. <i>Brain and Language</i> , 2019 , 193, 73-83	2.9	16
217	Brain-computer interfaces for post-stroke motor rehabilitation: a meta-analysis. <i>Annals of Clinical and Translational Neurology</i> , 2018 , 5, 651-663	5.3	161
216	Neural Encoding of Auditory Features during Music Perception and Imagery. <i>Cerebral Cortex</i> , 2018 , 28, 4222-4233	5.1	18
215	Sensory threshold neuromuscular electrical stimulation fosters motor imagery performance. <i>NeuroImage</i> , 2018 , 176, 268-276	7.9	26

214	Novice Shooters With Lower Pre-shooting Alpha Power Have Better Performance During Competition in a Virtual Reality Scenario. <i>Frontiers in Psychology</i> , 2018 , 9, 527	3.4	12
213	Human EEG reveals distinct neural correlates of power and precision grasping types. <i>NeuroImage</i> , 2018 , 181, 635-644	7.9	28
212	Brain-computer interfaces for stroke rehabilitation: summary of the 2016 BCI Meeting in Asilomar. <i>Brain-Computer Interfaces</i> , 2018 , 5, 41-57	2	5
211	Decoding Inner Speech Using Electrocorticography: Progress and Challenges Toward a Speech Prosthesis. <i>Frontiers in Neuroscience</i> , 2018 , 12, 422	5.1	33
210	The Cybathlon BCI race: Successful longitudinal mutual learning with two tetraplegic users. <i>PLoS Biology</i> , 2018 , 16, e2003787	9.7	63
209	EEG-Based Lower-Limb Movement Onset Decoding: Continuous Classification and Asynchronous Detection. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 1626-1635	4.8	24
208	. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2018 , 2, 288-297	4.1	13
207	ROS-health: An open-source framework for neurorobotics 2018 ,		6
206	Brain-actuated functional electrical stimulation elicits lasting arm motor recovery after stroke. <i>Nature Communications</i> , 2018 , 9, 2421	17.4	170
205	The human-computer connection: An overview of brain-computer interfaces. <i>Metode</i> , 2018 ,	2	3
204	mano: A Wearable Hand Exoskeleton for Activities of Daily Living and Neurorehabilitation. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 500-507	4.2	62
203	2018 ,		3
202	Motor Attempt EEG Paradigm as a Diagnostic Tool for Disorders of Consciousness. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 4681-4684	0.9	2
201	Using Robust Principal Component Analysis to Reduce EEG Intra-Trial Variability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 1956-1959	0.9	2
200	Differential contributions of subthalamic beta rhythms and 1/f broadband activity to motor symptoms in Parkinson's disease. <i>Npj Parkinsons Disease</i> , 2018 , 4, 32	9.7	7
199	Closed-loop electrical neurostimulation: Challenges and opportunities. <i>Current Opinion in Biomedical Engineering</i> , 2018 , 8, 28-37	4.4	21
198	Classification of upper limb center-out reaching tasks by means of EEG-based continuous decoding techniques. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017 , 14, 9	5.3	33
197	Electrically Assisted Movement Therapy in Chronic Stroke Patients With Severe Upper Limb Paresis: A Pilot, Single-Blind, Randomized Crossover Study. <i>Archives of Physical Medicine and Rehabilitation</i> , 2017 , 98, 1628-1635.e2	2.8	18

196	Harnessing Prefrontal Cognitive Signals for Brain-Machine Interfaces. <i>Trends in Biotechnology</i> , 2017 , 35, 585-597	15.1	16
195	Cortical and subcortical mechanisms of brain-machine interfaces. <i>Human Brain Mapping</i> , 2017 , 38, 2971-2989	5.9	23
194	Long-Term Stable Control of Motor-Imagery BCI by a Locked-In User Through Adaptive Assistance. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 380-391	4.8	24
193	EEG topographies provide subject-specific correlates of motor control. <i>Scientific Reports</i> , 2017 , 7, 13229	4.9	24
192	Increasing upper limb training intensity in chronic stroke using embodied virtual reality: a pilot study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017 , 14, 119	5.3	37
191	Brain racers. <i>IEEE Spectrum</i> , 2017 , 54, 44-51	1.7	10
190	Brain-actuated gait trainer with visual and proprioceptive feedback. <i>Journal of Neural Engineering</i> , 2017 , 14, 056017	5	13
189	An Approach to a Phase Model for Steady State Visually Evoked Potentials. <i>Biosystems and Biorobotics</i> , 2017 , 1481-1489	0.2	
188	Plug&Play Brain-Computer Interfaces for effective Active and Assisted Living control. <i>Medical and Biological Engineering and Computing</i> , 2017 , 55, 1339-1352	3.1	13
187	A brain-controlled exoskeleton with cascaded event-related desynchronization classifiers. <i>Robotics and Autonomous Systems</i> , 2017 , 90, 15-23	3.5	62
186	Endogenous Control of Powered Lower-Limb Exoskeleton. <i>Biosystems and Biorobotics</i> , 2017 , 115-119	0.2	6
185	Inverse solutions for brain-computer interfaces: Effects of regularisation on localisation and classification 2017 ,		1
184	Behavioral and Cortical Effects during Attention Driven Brain-Computer Interface Operations in Spatial Neglect: A Feasibility Case Study. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 336	3.3	9
183	Decoding of Self-paced Lower-Limb Movement Intention: A Case Study on the Influence Factors. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 560	3.3	14
182	Encoding and Decoding Models in Cognitive Electrophysiology. <i>Frontiers in Systems Neuroscience</i> , 2017 , 11, 61	3.5	55
181	An EEG-based brain-computer interface for gait training 2017 ,		8
180	Action Monitoring Cortical Activity Coupled to Submovements. <i>ENeuro</i> , 2017 , 4,	3.9	10
179	Hyperdimensional Computing for Noninvasive Brain-Computer Interfaces: Blind and One-Shot Classification of EEG Error-Related Potentials 2017 ,		23

178	The effect of multimodal and enriched feedback on SMR-BCI performance. <i>Clinical Neurophysiology</i> , 2016 , 127, 490-498	4.3	35
177	Stream fusion for multi-stream automatic speech recognition. <i>International Journal of Speech Technology</i> , 2016 , 19, 669-675	1.3	
176	Detection of movement related cortical potential: effects of causal vs. non-causal processing. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 5733-5736	0.9	
175	Word pair classification during imagined speech using direct brain recordings. <i>Scientific Reports</i> , 2016 , 6, 25803	4.9	71
174	. <i>IEEE Computational Intelligence Magazine</i> , 2016 , 11, 32-39	5.6	21
173	Superposition model for Steady State Visually Evoked Potentials 2016 ,		1
172	Evaluating decoding performance of upper limb imagined trajectories during center-out reaching tasks 2016 ,		4
171	Spatial filters yield stable features for error-related potentials across conditions 2016 ,		7
170	Context-aware adaptive spelling in motor imagery BCI. <i>Journal of Neural Engineering</i> , 2016 , 13, 036018	5	24
169	Quantifying electrode reliability during brain-computer interface operation. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 858-64	5	5
168	Discriminant brain connectivity patterns of performance monitoring at average and single-trial levels. <i>NeuroImage</i> , 2015 , 120, 64-74	7.9	16
167	Control strategies for active lower extremity prosthetics and orthotics: a review. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015 , 12, 1	5.3	448
166	Action prediction based on anticipatory brain potentials during simulated driving. <i>Journal of Neural Engineering</i> , 2015 , 12, 066006	5	31
165	Teaching brain-machine interfaces as an alternative paradigm to neuroprosthetics control. <i>Scientific Reports</i> , 2015 , 5, 13893	4.9	82
164	. <i>Proceedings of the IEEE</i> , 2015 , 103, 926-943	14.3	98
163	Towards Independence: A BCI Telepresence Robot for People With Severe Motor Disabilities. <i>Proceedings of the IEEE</i> , 2015 , 103, 969-982	14.3	103
162	. <i>Proceedings of the IEEE</i> , 2015 , 103, 868-870	14.3	2
161	Brain-Machine Interfaces: The Perception-Action Closed Loop: A Two-Learner System. <i>IEEE Systems, Man, and Cybernetics Magazine</i> , 2015 , 1, 6-8	1.6	13

160	Brain Correlates of Lane Changing Reaction Time in Simulated Driving 2015 ,		5
159	Decoding fast-paced error-related potentials in monitoring protocols. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 1111-4</i>	0.9	4
158	EEG-based decoding of error-related brain activity in a real-world driving task. <i>Journal of Neural Engineering, 2015, 12, 066028</i>	5	58
157	Detecting intention to grasp during reaching movements from EEG. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 1115-8</i>	0.9	13
156	Modulation of the inter-hemispheric asymmetry of motor-related brain activity using brain-computer interfaces. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 2319-22</i>	0.9	0
155	BNCI Horizon 2020: towards a roadmap for the BCI community. <i>Brain-Computer Interfaces, 2015, 2, 1-10</i>	2	135
154	Corticospinal neuroprostheses to restore locomotion after spinal cord injury. <i>Neuroscience Research, 2014, 78, 21-9</i>	2.9	38
153	Improving Skills and Perception in Robot Navigation by an Augmented Virtuality Assistance System. <i>Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 76, 255-266</i>	2.9	9
152	Decoding spectrotemporal features of overt and covert speech from the human cortex. <i>Frontiers in Neuroengineering, 2014, 7, 14</i>		107
151	Single trial prediction of self-paced reaching directions from EEG signals. <i>Frontiers in Neuroscience, 2014, 8, 222</i>	5.1	49
150	Errare machinale est: the use of error-related potentials in brain-machine interfaces. <i>Frontiers in Neuroscience, 2014, 8, 208</i>	5.1	146
149	Latency correction of event-related potentials between different experimental protocols. <i>Journal of Neural Engineering, 2014, 11, 036005</i>	5	32
148	Rewards-driven control of robot arm by decoding EEG signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 1658-61</i>	0.9	4
147	Clinical evaluation of BrainTree, a motor imagery hybrid BCI speller. <i>Journal of Neural Engineering, 2014, 11, 036003</i>	5	50
146	Quantification and reduction of visual load during BCI operation 2014 ,		2
145	EEG correlates of active visual search during simulated driving: An exploratory study 2014 ,		6
144	Modular organization of reaching and grasping movements investigated using EEG microstates. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 2093-6</i>	0.9	4
143	Subject-oriented training for motor imagery brain-computer interfaces. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 1259-62</i>	0.9	8

142	Brain-Machine Interfaces 2014 , 1343-1352		1
141	Brain-Computer Interfaces and Assistive Technology. <i>The International Library of Ethics, Law and Technology</i> , 2014 , 7-38	0.5	18
140	Three-dimensional upper limb movement decoding from EEG signals 2013 ,		2
139	Unsupervised adaptation for acceleration-based activity recognition: robustness to sensor displacement and rotation. <i>Personal and Ubiquitous Computing</i> , 2013 , 17, 479-490	2.1	39
138	Personalized neuroprosthetics. <i>Science Translational Medicine</i> , 2013 , 5, 210rv2	17.5	110
137	Transferring brain-computer interfaces beyond the laboratory: successful application control for motor-disabled users. <i>Artificial Intelligence in Medicine</i> , 2013 , 59, 121-32	7.4	105
136	A novel tactile stimulation system for BCI feedback 2013 ,		1
135	2013 ,		1
134	Brain-machine interface: closer to therapeutic reality?. <i>Lancet, The</i> , 2013 , 381, 515-7	40	22
133	An online EEG BCI based on covert visuospatial attention in absence of exogenous stimulation. <i>Journal of Neural Engineering</i> , 2013 , 10, 056007	5	36
132	The Opportunity challenge: A benchmark database for on-body sensor-based activity recognition. <i>Pattern Recognition Letters</i> , 2013 , 34, 2033-2042	4.7	336
131	Opportunistic human activity and context recognition. <i>Computer</i> , 2013 , 46, 36-45	1.6	46
130	On-line anomaly detection and resilience in classifier ensembles. <i>Pattern Recognition Letters</i> , 2013 , 34, 1916-1927	4.7	32
129	Brain-Controlled Wheelchairs: A Robotic Architecture. <i>IEEE Robotics and Automation Magazine</i> , 2013 , 20, 65-73	3.4	255
128	Brain-Computer Interfaces 2013 , 237-252		5
127	Making the most of context-awareness in brain-computer interfaces 2013 ,		3
126	A hybrid BCI for enhanced control of a telepresence robot. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 3097-100	0.9	20
125	Steering timing prediction in a driving simulator task. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 6913-6	0.9	21

124	Freeing the visual channel by exploiting vibrotactile BCI feedback. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 3093-6</i>	0.9	17
123	Offline decoding of upper limb muscle synergies from EEG slow cortical potentials. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 3594-7</i>	0.9	7
122	Single trial analysis of slow cortical potentials: a study on anticipation related potentials. <i>Journal of Neural Engineering, 2013, 10, 036014</i>	5	60
121	Inferring driver's turning direction through detection of error related brain activity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 2196-9</i>	0.9	5
120	An iterative framework for EEG-based image search: robust retrieval with weak classifiers. <i>PLoS ONE, 2013, 8, e72018</i>	3.7	15
119	tDCS Modulates Motor Imagery-Related BCI Features. <i>Biosystems and Birobotics, 2013, 647-651</i>	0.2	5
118	Time-dependent approach for single trial classification of covert visuospatial attention. <i>Journal of Neural Engineering, 2012, 9, 045011</i>	5	22
117	Interaction and evaluation of an augmented virtuality assistance system for teleoperated robots 2012,		5
116	EEG-based Brain-Computer Interface to support post-stroke motor rehabilitation of the upper limb. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 4112-5</i>	0.9	55
115	Recent and Upcoming BCI Progress: Overview, Analysis, and Recommendations 2012, 1-13		9
114	The timing of exploratory decision-making revealed by single-trial topographic EEG analyses. <i>NeuroImage, 2012, 60, 1959-69</i>	7.9	25
113	Detection of self-paced reaching movement intention from EEG signals. <i>Frontiers in Neuroengineering, 2012, 5, 13</i>		142
112	Improved recognition of error related potentials through the use of brain connectivity features. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 6740-3</i>	0.9	9
111	Anticipation- and error-related EEG signals during realistic human-machine interaction: a study on visual and tactile feedback. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 4102-5</i>	0.9	15
110	Detection of anticipatory brain potentials during car driving. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 3829-32</i>	0.9	28
109	Real-time prediction of fast and slow delivery of mental commands in a motor imagery BCI: An entropy-based approach 2012,		3
108	The birth of the brain-controlled wheelchair 2012,		18
107	Online modulation of the level of assistance in shared control systems 2012,		13

106	Kinect=IMU? Learning MIMO Signal Mappings to Automatically Translate Activity Recognition Systems across Sensor Modalities 2012 ,		19
105	Latency correction of error potentials between different experiments reduces calibration time for single-trial classification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> ,	0.9	28
104	Self-paced movement intention detection from human brain signals: Invasive and non-invasive EEG. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3280-3	0.9	19
103	The OPPORTUNITY Framework and Data Processing Ecosystem for Opportunistic Activity and Context Recognition. <i>International Journal of Sensors, Wireless Communications and Control</i> , 2012 , 1, 102-125	0.4	7
102	Brain-Computer Interfaces 2012 , 37-51		
101	A hybrid brain-computer interface based on the fusion of electroencephalographic and electromyographic activities. <i>Journal of Neural Engineering</i> , 2011 , 8, 025011	5	144
100	Phase-based features for motor imagery brain-computer interfaces. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 2578-81	0.9	18
99	Unsupervised Adaptation to On-body Sensor Displacement in Acceleration-Based Activity Recognition 2011 ,		13
98	Activity Recognition in Opportunistic Sensor Environments. <i>Procedia Computer Science</i> , 2011 , 7, 173-174	1.6	9
97	Brain-Computer interfaces for space applications. <i>Personal and Ubiquitous Computing</i> , 2011 , 15, 527-537	2.1	41
96	Cortical current density vs. surface EEG for event-related potential-based Brain-Computer Interface 2011 ,		7
95	Learning user habits for semi-autonomous navigation using low throughput interfaces 2011 ,		4
94	Single trial recognition of anticipatory slow cortical potentials: The role of spatio-spectral filtering 2011 ,		10
93	Detecting anomalies to improve classification performance in opportunistic sensor networks 2011 ,		12
92	Dynamic Quantification of Activity Recognition Capabilities in Opportunistic Systems 2011 ,		6
91	Combining discriminant and topographic information in BCI: Preliminary results on stroke patients 2011 ,		3
90	Detecting and Rectifying Anomalies in Body Sensor Networks 2011 ,		12
89	Brain-controlled telepresence robot by motor-disabled people. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 4227-30	0.9	59

88	Benchmarking classification techniques using the Opportunity human activity dataset 2011 ,		54
87	Ensemble creation and reconfiguration for activity recognition: An information theoretic approach 2011 ,		11
86	Evaluation of proportional and discrete shared control paradigms for low resolution user inputs 2011 ,		7
85	Tools for Brain-Computer Interaction: A General Concept for a Hybrid BCI. <i>Frontiers in Neuroinformatics</i> , 2011 , 5, 30	3.9	101
84	Minimizing calibration time using inter-subject information of single-trial recognition of error potentials in brain-computer interfaces. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference 2011</i> , 2011, 6369-72	0.9	6
83	Adaptation of hybrid human-computer interaction systems using EEG error-related potentials. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 4226-9	0.9	11
82	Towards natural non-invasive hand neuroprostheses for daily living. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 126-9	0.9	32
81	Multimodal fusion of muscle and brain signals for a hybrid-BCI. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 4343-6	0.9	41
80	2010 ,		255
79	On the road to a neuroprosthetic hand: a novel hand grasp orthosis based on functional electrical stimulation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 146-9	0.9	16
78	The role of shared-control in BCI-based telepresence 2010 ,		73
77	Combining Brain-Computer Interfaces and Assistive Technologies: State-of-the-Art and Challenges. <i>Frontiers in Neuroscience</i> , 2010 , 4,	5.1	336
76	Learning from EEG error-related potentials in noninvasive brain-computer interfaces. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2010 , 18, 381-8	4.8	142
75	Invasive or noninvasive: understanding brain-machine interface technology. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2010 , 29, 16-22		72
74	Brain-coupled interaction for semi-autonomous navigation of an assistive robot. <i>Robotics and Autonomous Systems</i> , 2010 , 58, 1246-1255	3.5	76
73	On the Use of Brain Decoded Signals for Online User Adaptive Gesture Recognition Systems. <i>Lecture Notes in Computer Science</i> , 2010 , 427-444	0.9	17
72	Bayesian plan recognition for Brain-Computer Interfaces 2009 ,		6
71	Validation of brain-machine interfaces during parabolic flight. <i>International Review of Neurobiology</i> , 2009 , 86, 189-97	4.4	10

70	Fast recognition of anticipation-related potentials. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 1257-60	5	24
69	Neural engineering: EPFL Center for Neuroprosthetics. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2009 , 28, 60-1		
68	Prospects of brain-machine interfaces for space system control. <i>Acta Astronautica</i> , 2009 , 64, 448-456	2.9	23
67	Asynchronous non-invasive brain-actuated control of an intelligent wheelchair. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 3361-4	0.9	76
66	Discriminative channel selection method for the recognition of anticipation related potentials from CCD estimated cortical activity 2009 ,		4
65	OPPORTUNITY: Towards opportunistic activity and context recognition systems 2009 ,		44
64	EEG error-related potentials detection with a Bayesian filter 2009 ,		4
63	Anticipation based Brain-Computer Interfacing (aBCI) 2009 ,		3
62	Error-related EEG potentials generated during simulated brain-computer interaction. <i>IEEE Transactions on Biomedical Engineering</i> , 2008 , 55, 923-9	5	219
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