Carmen Vidaurre

List of Publications by Year
in descending order

56 papers	3,747 citations	257101 24 h-index	276539 41 g-index
57 all docs	57 docs citations	57 times ranked	3020 citing authors

#	Article	IF	Citations
1	Review of the BCI Competition IV. Frontiers in Neuroscience, 2012, 6, 55.	1.4	686
2	Towards a Cure for BCI Illiteracy. Brain Topography, 2010, 23, 194-198.	0.8	389
3	Time Domain Parameters as a feature for EEG-based Brainâ€“Computer Interfaces. Neural Networks, 2009, 22, 1313-1319.	3.3	353
4	The Berlin Brainâ€“Computer Interface: Non-Medical Uses of BCI Technology. Frontiers in Neuroscience, 2010, 4, 198.	1.4	277
5	Stationary common spatial patterns for brainâ€“computer interfacing. Journal of Neural Engineering, 2012, 9, 026013.	1.8	176
6	Machine-Learning-Based Coadaptive Calibration for Brain-Computer Interfaces. Neural Computation, 2011, 23, 791-816.	1.3	175
7	A Fully On-Line Adaptive BCI. IEEE Transactions on Biomedical Engineering, 2006, 53, 1214-1219.	2.5	167
8	BioSig: The Free and Open Source Software Library for Biomedical Signal Processing. Computational Intelligence and Neuroscience, 2011, 2011, 1-12.	1.1	161
9	Co-adaptive calibration to improve BCI efficiency. Journal of Neural Engineering, 2011, 8, 025009.	1.8	143
10	Autocalibration and Recurrent Adaptation: Towards a Plug and Play Online ERD-BCI. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 313-319.	2.7	130
11	Study of On-Line Adaptive Discriminant Analysis for EEG-Based Brain Computer Interfaces. IEEE Transactions on Biomedical Engineering, 2007, 54, 550-556.	2.5	128
12	MUNDUS project: MUltimodal Neuroprosthesis for daily Upper limb Support. Journal of NeuroEngineering and Rehabilitation, 2013, 10, 66.	2.4	115
13	A large scale screening study with a SMR-based BCI: Categorization of BCI users and differences in their SMR activity. PLoS ONE, 2019, 14, e0207351.	1.1	71
14	Immediate brain plasticity after one hour of brainâ€“computer interface (BCI). Journal of Physiology, 2021, 599, 2435-2451.	1.3	50
15	EEG-based BCI for the linear control of an upper-limb neuroprosthesis. Medical Engineering and Physics, 2016, 38, 1195-1204.	0.8	48
16	Ensembles of adaptive spatial filters increase BCI performance: an online evaluation. Journal of Neural Engineering, 2016, 13, 046003.	1.8	45
17	A mathematical model for the two-learners problem. Journal of Neural Engineering, 2017, 14, 036005.	1.8	45
18	Large-Scale Assessment of a Fully Automatic Co-Adaptive Motor Imagery-Based Brain Computer Interface. PLoS ONE, 2016, 11, e0148886.	1.1	45

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19	Towards a holistic assessment of the user experience with hybrid BCIs. Journal of Neural Engineering, 2014, 11, 035007.	1.8	43
20	CSP patches: an ensemble of optimized spatial filters. An evaluation study. Journal of Neural Engineering, 2011, 8, 025012.	1.8	41
21	A comparison of univariate, vector, bilinear autoregressive, and band power features for brainâ€“computer interfaces. Medical and Biological Engineering and Computing, 2011, 49, 1337-1346.	1.6	36
22	Study of discriminant analysis applied to motor imagery bipolar data. Medical and Biological Engineering and Computing, 2007, 45, 61-68.	1.6	35
23	Robust Common Spatial Filters with a Maxmin Approach. Neural Computation, 2014, 26, 349-376.	1.3	32
24	Enhancing sensorimotor BCI performance with assistive afferent activity: An online evaluation. NeuroImage, 2019, 199, 375-386.	2.1	30
25	Frequency-Specific Coupling in the Cortico-Cerebellar Auditory System. Journal of Neurophysiology, 2008, 100, 1699-1705.	0.9	28
26	Neuromuscular electrical stimulation induced brain patterns to decode motor imagery. Clinical Neurophysiology, 2013, 124, 1824-1834.	0.7	27
27	Adaptive Methods in BCI Research - An Introductory Tutorial. The Frontiers Collection, 2009, , 331-355.	0.1	24
28	Sensorimotor Functional Connectivity: A Neurophysiological Factor Related to BCI Performance. Frontiers in Neuroscience, 2020, 14, 575081.	1.4	21
29	Corticomuscular interactions during different movement periods in a multi-joint compound movement. Scientific Reports, 2020, 10, 5021.	1.6	18
30	Towards a cure for BCI illiteracy: machine learning based co-adaptive learning. BMC Neuroscience, 2009, 10, .	0.8	16
31	Brain-computer interfacing in discriminative and stationary subspaces. , 2012, 2012, 2873-6.		16
32	Motor imagery based brainâ€“computer interfaces. , 2018, , 171-195.		16
33	Common spatial pattern patches - An optimized filter ensemble for adaptive brain-computer interfaces. , 2010, 2010, 4351-4.		15
34	Stationary Common Spatial Patterns: Towards robust classification of non-stationary EEG signals. , 2011, , .		15
35	Afferent and efferent activity control in the design of brain computer interfaces for motor rehabilitation. , 2011, 2011, 7310-5.		14
36	Canonical maximization of coherence: A novel tool for investigation of neuronal interactions between two datasets. NeuroImage, 2019, 201, 116009.	2.1	14

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37	Improving motor imagery classification during induced motor perturbations. Journal of Neural Engineering, 2021, 18, 0460b1.	1.8	13
38	Machine-Learning Based Co-adaptive Calibration: A Perspective to Fight BCI Illiteracy. Lecture Notes in Computer Science, 2010, , 413-420.	1.0	12
39	Comparison of adaptive features with linear discriminant classifier for Brain computer Interfaces. , 2008, 2008, 173-6.		10
40	Robust common spatial filters with a maxmin approach. , 2009, 2009, 2470-3.		9
41	Common Spatial Pattern Patches: Online evaluation on BCI-naive users. , 2012, 2012, 4744-7.		9
42	Intermuscular coherence between homologous muscles during dynamic and static movement periods of bipedal squatting. Journal of Neurophysiology, 2020, 124, 1045-1055.	0.9	9
43	A Maxmin Approach to Optimize Spatial Filters for EEG Single-Trial Classification. Lecture Notes in Computer Science, 2009, , 674-682.	1.0	7
44	EEG-based Endogenous Online Co-Adaptive Brain-Computer Interfaces: Strategy for Success?. , 2018, , .		7
45	First study towards linear control of an upper-limb neuroprosthesis with an EEG-based Brain-Computer Interface. , 2012, 2012, 3269-73.		5
46	Detecting Mental States by Machine Learning Techniques: The Berlin Brainâ€“Computer Interface. The Frontiers Collection, 2009, , 113-135.	0.1	5
47	Machine Learning Methods of the Berlin Brain-Computer Interface. IFAC-PapersOnLine, 2015, 48, 447-452.	0.5	4
48	Improving Classification Performance of BCIs by Using Stationary Common Spatial Patterns and Unsupervised Bias Adaptation. Lecture Notes in Computer Science, 2011, , 34-41.	1.0	4
49	Modelling Non-stationarities in EEG Data with Robust Principal Component Analysis. Lecture Notes in Computer Science, 2011, , 51-58.	1.0	3
50	Oscillatory Source Tensor Discriminant Analysis (OSTDA): A regularized tensor pipeline for SSVEP-based BCI systems. Neurocomputing, 2022, 492, 664-675.	3.5	3
51	Classifying motor imagery with FES induced EEG patterns. Neuroscience Letters, 2011, 500, e48.	1.0	1
52	Decoding cognitive brain states. , 2013, , .		1
53	Optimizing a Weighted Moderate Deviation for Motor Imagery Brain Computer Interfaces. , 2021, , .		0
54	A Fast SSVEP-Based Brain-Computer Interface. Lecture Notes in Computer Science, 2020, , 49-60.	1.0	0

#	Article	IF	Citations
55	Brain-Computer Interfaces and Visual Activity. , 0, , 1549-1570.		0
56	Brain-Computer Interfaces and Visual Activity. , 0, , 153-174.		0