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List of Publications by Year in descending order

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68
papers

500
citations

758635

12
h-index

794141

19
g-index

77
all docs

77
docs citations

77
times ranked

255
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherence between one random and one periodic signal for measuring the strength of responses in the electro-encephalogram during sensory stimulation. Medical and Biological Engineering and Computing, 2002, 40, 99-104.	1.6	44
2	A Matrix-Based Algorithm for Estimating Multiple Coherence of a Periodic Signal and Its Application to the Multichannel EEG During Sensory Stimulation. IEEE Transactions on Biomedical Engineering, 2004, 51, 1140-1146.	2.5	41
3	A Note on the Sampling Distribution of Coherence Estimate for the Detection of Periodic Signals. IEEE Signal Processing Letters, 2004, 11, 323-325.	2.1	30
4	Multivariate Objective Response Detectors (MORD): Statistical Tools for Multichannel EEG Analysis During Rhythmic Stimulation. Annals of Biomedical Engineering, 2007, 35, 443-452.	1.3	28
5	Improving the detection of evoked responses to periodic stimulation by using multiple coherence—application to EEG during photic stimulation. Medical Engineering and Physics, 2002, 24, 245-252.	0.8	24
6	Evaluating the entrainment of the alpha rhythm during stroboscopic flash stimulation by means of coherence analysis. Medical Engineering and Physics, 2005, 27, 167-173.	0.8	24
7	Multi-channel evoked response detection using only phase information. Journal of Neuroscience Methods, 2003, 129, 1-10.	1.3	21
8	Evaluating the relationship of non-phase locked activities in the electroencephalogram during intermittent stimulation: a partial coherence-based approach. Medical and Biological Engineering and Computing, 2007, 45, 635-642.	1.6	20
9	Coherence estimate between a random and a periodic signal: Bias, variance, analytical critical values, and normalizing transforms. Journal of the Franklin Institute, 2009, 346, 841-853.	1.9	20
10	Avoiding spectral leakage in objective detection of auditory steady-state evoked responses in the inferior colliculus of rat using coherence. Journal of Neuroscience Methods, 2005, 144, 249-255.	1.3	17
11	A statistical technique for measuring synchronism between cortical regions in the EEG during rhythmic stimulation. IEEE Transactions on Biomedical Engineering, 2001, 48, 1211-1215.	2.5	15
12	Lomb-scargle periodogram applied to heart rate variability study. , 2013, , .		13
13	Comparison of univariate and multivariate magnitude-squared coherences in the detection of human 40-Hz auditory steady-state evoked responses. Biomedical Signal Processing and Control, 2018, 40, 234-239.	3.5	13
14	A template subtraction method for reducing electrocardiographic artifacts in EMG signals of low intensity. Biomedical Signal Processing and Control, 2019, 47, 380-386.	3.5	13
15	Multivariate evoked response detection based on the spectral F -test. Journal of Neuroscience Methods, 2016, 264, 113-118.	1.3	11
16	A coherence-based technique for separating phase-locked from non-phase-locked power spectrum estimates during intermittent stimulation. Journal of Neuroscience Methods, 2006, 156, 267-274.	1.3	10
17	Reducing electrocardiographic artifacts from electromyogram signals with independent component analysis. , 2010, 2010, 4598-601.		10
18	Topographic distribution of the tibial somatosensory evoked potential using coherence. Brazilian Journal of Medical and Biological Research, 2008, 41, 1059-1066.	0.7	9

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19	A spatial approach of magnitude-squared coherence applied to selective attention detection. Journal of Neuroscience Methods, 2014, 229, 28-32.	1.3	9
20	A principal component-based algorithm for denoising in single channel data (PCA for denoising in) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 121-128.	2.5	9
21	Characterization of Viscoelasticity Due to Shear Wave Propagation: a Comparison of Existing Methods Based on Computational Simulation and Experimental Data. Experimental Mechanics, 2017, 57, 615-635.	1.1	9
22	Multivariate approach for estimating the local spectral F-test and its application to the EEG during photic stimulation. Computer Methods and Programs in Biomedicine, 2018, 162, 87-91.	2.6	9
23	Spectral F-Test power evaluation in the EEG during intermittent photic stimulatón. Arquivos De Neuro-Psiquiatria, 2006, 64, 228-232.	0.3	9
24	Using Objective Response Detection techniques for detecting the tibial somatosensory evoked response with different stimulation rates. Journal of Neuroscience Methods, 2011, 195, 255-260.	1.3	7
25	Improving the detection of evoked responses to periodic stimulation by using bivariate local spectral F-test Application to EEG during photic stimulation. Medical Engineering and Physics, 2017, 48, 176-180.	0.8	7
26	Gain and coherence estimates between respiration and heart-rate: Differences between inspiration and expiration. Autonomic Neuroscience: Basic and Clinical, 2013, 178, 89-95.	1.4	6
27	Improving the power of objective response detection of evoked responses in noise by using average and product of magnitude-squared coherence of two different signals. Medical and Biological Engineering and Computing, 2019, 57, 2203-2214.	1.6	6
28	A Statistical Test for Evaluating the Event-Related Synchronization/Desynchronization and its Potential use in Brain-Computer-Interfaces. IFMBE Proceedings, 2007, , 1122-1126.	0.2	6
29	A note on the coherence-based signal-to-noise ratio estimation in systems with periodic inputs. Journal of the Franklin Institute, 2006, 343, 688-698.	1.9	5
30	Statistical aspects concerning signal coherence applied to randomly modulated periodic signals. IEEE Signal Processing Letters, 2006, 13, 104-107.	2.1	5
31	Tibial nerve somatosensory evoked response detection using uni and multivariate coherence. Biomedical Signal Processing and Control, 2012, 7, 215-220.	3.5	5
32	Evaluating the Event-Related Synchronization and Desynchronization by means of a Statistical Frequency Test. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2472-5.	0.5	4
33	Investigating cardiocomotor synchronization during running in trained and untrained males. Research on Biomedical Engineering, 2015, 31, 176-186.	1.5	4
34	Choosing multichannel objective response detectors for multichannel auditory steady-state responses. Biomedical Signal Processing and Control, 2021, 68, 102599.	3.5	4
35	Recovery coefficients determination for partial volume effect correction in oncological PET/CT images considering the effect of activity outside the field of view. Annals of Nuclear Medicine, 2013, 27, 924-930.	1.2	3
36	Comments on "Sums, Products, and Ratios of Non-Central Beta Variables" by Saralees Nadarajah. Communications in Statistics - Theory and Methods, 2007, 36, 1505-1506.	0.6	2

#	ARTICLE	IF	CITATIONS
37	Post-processing of auditory steady-state responses to correct spectral leakage. Journal of Neuroscience Methods, 2009, 181, 145-149.	1.3	2
38	ICA-Based Method for Quantifying EEG Event-Related Desynchronization. Lecture Notes in Computer Science, 2009, , 403-410.	1.0	2
39	Independent component analysis to remove ECG interference from single channel electromyographic signal. , 2013, , .		2
40	Independent component analysis-based method for electroencephalogram analysis during photic stimulation. Journal of Neuroscience Methods, 2014, 235, 252-261.	1.3	2
41	Vision-Free Brain-Computer Interface using auditory selective attention: evaluation of training effect. IFMBE Proceedings, 2016, , 196-199.	0.2	2
42	Development of a brain computer interface based on steady-state visual evoked potential with multiple intermittent photo stimulation. Biomedical Signal Processing and Control, 2020, 57, 101703.	3.5	2
43	Distribution of the multiple coherence estimate for the detection of periodic signals in noise. Signal Processing, 2021, 183, 108035.	2.1	2
44	Probability waves: Adaptive cluster-based correction by convolution of p-value series from mass univariate analysis. Journal of Neuroscience Methods, 2021, 357, 109155.	1.3	2
45	Using Component Synchrony Measure for somatosensory evoked potential detection. , 2006, 2006, 4572-5.		1
46	Multiple Coherence vs Multiple Component Synchrony Measure for somatosensory evoked response detection. , 2010, 2010, 1662-5.		1
47	Controlling Devices Using Biological Signals. International Journal of Advanced Robotic Systems, 2011, 8, 30.	1.3	1
48	Radiomic Features Selection From PET/CT Images for the Adenocarcinoma Histologic Subtype Identification in Non-small Cell Lung Cancer. IFMBE Proceedings, 2019, , 407-411.	0.2	1
49	The global Beta test for hidden periodicities in signals and its extensions to multivariate systems. Computer Methods and Programs in Biomedicine, 2020, 195, 105550.	2.6	1
50	Considering the effect of correlation between the channels in multivariate detectors for evoked responses in the electroencephalogram. Biomedical Signal Processing and Control, 2022, 71, 103111.	3.5	1
51	On the classification of tremor signals into dyskinesia, Parkinsonian tremor, and Essential tremor by using machine learning techniques. Biomedical Signal Processing and Control, 2022, 73, 103430.	3.5	1
52	An investigation of the statistics of coherence estimates in EEG signals. , 1992, , .		0
53	On the detection of visual evoked responses by using multiple coherence. , 0, , .		0
54	Comments on "Statistical Distribution of the Measure of Coherence. IEEE Transactions on Biomedical Engineering, 2006, 53, 2411-2412.	2.5	0

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55	Sweep operator applied to the calculation of partial and multiple coherence. , 2011, , .		0
56	Real time classification of selective attention on auditory steady-state evoked potentials. , 2012, , .		0
57	Spectral F Test for Detecting EEG Event Related Synchronization/Desynchronization Caused by Transcranial Magnetic Stimulation. IFMBE Proceedings, 2016, , 25-28.	0.2	0
58	The Bivariate Global Spectral Beta Test: A New Objective Response Detector Applied to the EEG During Photic Stimulation. IFMBE Proceedings, 2019, , 479-484.	0.2	0
59	Classification of Motor Tasks from EEG Signals Comparing Preprocessing Techniques. IFMBE Proceedings, 2019, , 109-113.	0.2	0
60	Spectral F Test for detecting TMS/EEG responses. Biomedical Signal Processing and Control, 2020, 58, 101840.	3.5	0
61	Topographical distribution of the somatosensory evoked potential: an objective response detection approach. IFMBE Proceedings, 2007, , 34-37.	0.2	0
62	Detection of Evoked Responses in EEG using Computational Intelligence Tools. IFMBE Proceedings, 2009, , 1309-1312.	0.2	0
63	The somatosensory evoked response detection using coherence and different stimulation frequencies. IFMBE Proceedings, 2009, , 1294-1297.	0.2	0
64	Simples Coherence vs. Multiple Coherence: A Somatosensory Evoked Response Detection Investigation. IFMBE Proceedings, 2010, , 13-16.	0.2	0
65	Independent Component Analysis for Reducing Electrocardiographic Interference in the Multichannel Electromyogram. IFMBE Proceedings, 2011, , 169-172.	0.2	0
66	RICE DETECTOR: PROPOSAL OF A NOVEL OBJECTIVE RESPONSE DETECTION TECHNIQUE. Revista Brasileira De Engenharia Biomedica, 2013, 29, 321-328.	0.3	0
67	Application of Multivariate Spectral F Test for Somatosensory Evoked Response Detection. IFMBE Proceedings, 2020, , 13-21.	0.2	0
68	Combining Objective Response Detectors Using Genetic Programming. IFMBE Proceedings, 2020, , 83-92.	0.2	0