

Daniel Abasolo

List of Publications by Citations

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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.

95
papers

3,054
citations

30
h-index

54
g-index

105
ext. papers

3,631
ext. citations

3
avg, IF

5.05
L-index

#	Paper	IF	Citations
95	Interpretation of the Lempel-Ziv complexity measure in the context of biomedical signal analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 2282-8	5	233
94	Entropy analysis of the EEG background activity in Alzheimer's disease patients. <i>Physiological Measurement</i> , 2006 , 27, 241-53	2.9	213
93	Analysis of EEG background activity in Alzheimer's disease patients with Lempel-Ziv complexity and central tendency measure. <i>Medical Engineering and Physics</i> , 2006 , 28, 315-22	2.4	184
92	Analysis of electroencephalograms in Alzheimer's disease patients with multiscale entropy. <i>Physiological Measurement</i> , 2006 , 27, 1091-106	2.9	170
91	Analysis of regularity in the EEG background activity of Alzheimer's disease patients with Approximate Entropy. <i>Clinical Neurophysiology</i> , 2005 , 116, 1826-34	4.3	166
90	Nonlinear analysis of electroencephalogram and magnetoencephalogram recordings in patients with Alzheimer's disease. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 317-36	3	119
89	Refined Composite Multiscale Dispersion Entropy and its Application to Biomedical Signals. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2872-2879	5	110
88	Neural network based detection of hard exudates in retinal images. <i>Computer Methods and Programs in Biomedicine</i> , 2009 , 93, 9-19	6.9	106
87	A novel automatic image processing algorithm for detection of hard exudates based on retinal image analysis. <i>Medical Engineering and Physics</i> , 2008 , 30, 350-7	2.4	105
86	Use of the Higuchi's fractal dimension for the analysis of MEG recordings from Alzheimer's disease patients. <i>Medical Engineering and Physics</i> , 2009 , 31, 306-13	2.4	99
85	Interpretation of approximate entropy: analysis of intracranial pressure approximate entropy during acute intracranial hypertension. <i>IEEE Transactions on Biomedical Engineering</i> , 2005 , 52, 1671-80	5	98
84	Approximate entropy and auto mutual information analysis of the electroencephalogram in Alzheimer's disease patients. <i>Medical and Biological Engineering and Computing</i> , 2008 , 46, 1019-28	3.1	80
83	Utility of approximate entropy from overnight pulse oximetry data in the diagnosis of the obstructive sleep apnea syndrome. <i>IEEE Transactions on Biomedical Engineering</i> , 2007 , 54, 107-13	5	76
82	Extraction of spectral based measures from MEG background oscillations in Alzheimer's disease. <i>Medical Engineering and Physics</i> , 2007 , 29, 1073-83	2.4	75
81	Optimal parameters study for sample entropy-based atrial fibrillation organization analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2010 , 99, 124-32	6.9	67
80	Nonlinear characteristics of blood oxygen saturation from nocturnal oximetry for obstructive sleep apnoea detection. <i>Physiological Measurement</i> , 2006 , 27, 399-412	2.9	67
79	Complex analysis of intracranial hypertension using approximate entropy. <i>Critical Care Medicine</i> , 2006 , 34, 87-95	1.4	65

78	Complexity analysis of the magnetoencephalogram background activity in Alzheimer's disease patients. <i>Medical Engineering and Physics</i> , 2006 , 28, 851-9	2.4	58
77	Lempel-Ziv complexity of cortical activity during sleep and waking in rats. <i>Journal of Neurophysiology</i> , 2015 , 113, 2742-52	3.2	55
76	Analysis of MEG background activity in Alzheimer's disease using nonlinear methods and ANFIS. <i>Annals of Biomedical Engineering</i> , 2009 , 37, 586-94	4.7	51
75	Artifact removal in magnetoencephalogram background activity with independent component analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2007 , 54, 1965-73	5	50
74	Quantitative evaluation of artifact removal in real magnetoencephalogram signals with blind source separation. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 2274-86	4.7	49
73	Interpretation of the auto-mutual information rate of decrease in the context of biomedical signal analysis. Application to electroencephalogram recordings. <i>Physiological Measurement</i> , 2009 , 30, 187-99	2.9	48
72	Variability, regularity, and complexity of time series generated by schizophrenic patients and control subjects. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 210-8	5	48
71	Oxygen saturation regularity analysis in the diagnosis of obstructive sleep apnea. <i>Artificial Intelligence in Medicine</i> , 2006 , 37, 111-8	7.4	40
70	A study on the possible usefulness of detrended fluctuation analysis of the electroencephalogram background activity in Alzheimer's disease. <i>IEEE Transactions on Biomedical Engineering</i> , 2008 , 55, 2171-9 ⁵		39
69	Fuzzy Entropy Analysis of the Electroencephalogram in Patients with Alzheimer's Disease: Is the Method Superior to Sample Entropy?. <i>Entropy</i> , 2018 , 20,	2.8	37
68	Regional coherence evaluation in mild cognitive impairment and Alzheimer's disease based on adaptively extracted magnetoencephalogram rhythms. <i>Physiological Measurement</i> , 2011 , 32, 1163-80	2.9	34
67	Brain oscillatory complexity across the life span. <i>Clinical Neurophysiology</i> , 2012 , 123, 2154-62	4.3	33
66	Analysis of the magnetoencephalogram background activity in Alzheimer's disease patients with auto-mutual information. <i>Computer Methods and Programs in Biomedicine</i> , 2007 , 87, 239-47	6.9	31
65	Univariate and Multivariate Generalized Multiscale Entropy to Characterise EEG Signals in Alzheimer's Disease. <i>Entropy</i> , 2017 , 19, 31	2.8	30
64	Evaluation of spectral ratio measures from spontaneous MEG recordings in patients with Alzheimer's disease. <i>Computer Methods and Programs in Biomedicine</i> , 2008 , 90, 137-47	6.9	29
63	The correlation between white-matter microstructure and the complexity of spontaneous brain activity: a diffusion tensor imaging-MEG study. <i>NeuroImage</i> , 2011 , 57, 1300-7	7.9	23
62	Analysis of intracranial pressure during acute intracranial hypertension using Lempel-Ziv complexity: further evidence. <i>Medical and Biological Engineering and Computing</i> , 2007 , 45, 617-20	3.1	22
61	Blind source separation to enhance spectral and non-linear features of magnetoencephalogram recordings. Application to Alzheimer's disease. <i>Medical Engineering and Physics</i> , 2009 , 31, 872-9	2.4	21

60	Classification of Alzheimer's disease from quadratic sample entropy of electroencephalogram. <i>Healthcare Technology Letters</i> , 2015 , 2, 70-3	1.9	19
59	Complexity analysis of resting-state MEG activity in early-stage Parkinson's disease patients. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 2935-44	4.7	19
58	Predicting survival in critical patients by use of body temperature regularity measurement based on approximate entropy. <i>Medical and Biological Engineering and Computing</i> , 2007 , 45, 671-8	3.1	19
57	Assessment of classification improvement in patients with Alzheimer's disease based on magnetoencephalogram blind source separation. <i>Artificial Intelligence in Medicine</i> , 2008 , 43, 75-85	7.4	18
56	Non-linear analysis of intracranial electroencephalogram recordings with approximate entropy and Lempel-Ziv complexity for epileptic seizure detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 1953-6		17
55	Heart rate regularity analysis obtained from pulse oximetric recordings in the diagnosis of obstructive sleep apnea. <i>Sleep and Breathing</i> , 2006 , 10, 83-9	3.1	16
54	Nonlinear measure of synchrony between blood oxygen saturation and heart rate from nocturnal pulse oximetry in obstructive sleep apnoea syndrome. <i>Physiological Measurement</i> , 2009 , 30, 967-82	2.9	15
53	Complexity analysis of the cerebrospinal fluid pulse waveform during infusion studies. <i>Child's Nervous System</i> , 2010 , 26, 1683-9	1.7	14
52	Interpretation of Entropy Algorithms in the Context of Biomedical Signal Analysis and Their Application to EEG Analysis in Epilepsy. <i>Entropy</i> , 2019 , 21, 840	2.8	13
51	Accounting for the complex hierarchical topology of EEG phase-based functional connectivity in network binarisation. <i>PLoS ONE</i> , 2017 , 12, e0186164	3.7	13
50	Permutation Entropy for the Characterisation of Brain Activity Recorded with Magnetoencephalograms in Healthy Ageing. <i>Entropy</i> , 2017 , 19, 141	2.8	11
49	Analysis of spontaneous MEG activity in patients with Alzheimer's disease using spectral entropies. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 6180-3		11
48	Spectral analysis of intracranial pressure signals recorded during infusion studies in patients with hydrocephalus. <i>Medical Engineering and Physics</i> , 2013 , 35, 1490-8	2.4	8
47	Characterisation of the intracranial pressure waveform during infusion studies by means of central tendency measure. <i>Acta Neurochirurgica</i> , 2012 , 154, 1595-602	3	8
46	Complexity changes in preclinical Alzheimer's disease: An MEG study of subjective cognitive decline and mild cognitive impairment. <i>Clinical Neurophysiology</i> , 2020 , 131, 437-445	4.3	8
45	Complexity Changes in Brain Activity in Healthy Ageing: A Permutation Lempel-Ziv Complexity Study of Magnetoencephalograms. <i>Entropy</i> , 2018 , 20,	2.8	7
44	Alteration of the P-wave non-linear dynamics near the onset of paroxysmal atrial fibrillation. <i>Medical Engineering and Physics</i> , 2015 , 37, 692-7	2.4	7
43	Analysis of MEG recordings from Alzheimer's disease patients with sample and multiscale entropies. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 6184-7		7

42	Distance-Based Lempel-Ziv Complexity for the Analysis of Electroencephalograms in Patients with Alzheimer's Disease. <i>Entropy</i> , 2017 , 19, 129	2.8	6
41	Characterisation of the Effects of Sleep Deprivation on the Electroencephalogram Using Permutation Lempel-Ziv Complexity, a Non-Linear Analysis Tool. <i>Entropy</i> , 2017 , 19, 673	2.8	6
40	Myo-Pong: A neuromuscular game for the UVa-Neuromuscular Training System platform 2008 ,		6
39	Magnetoencephalogram background activity analysis in Alzheimer's disease patients using auto mutual information. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 6181-4		6
38	Use of wavelet entropy to compare the EEG background activity of epileptic patients and control subjects 2003 ,		6
37	A comparison of the cluster-span threshold and the union of shortest paths as objective thresholds of EEG functional connectivity networks from Beta activity in Alzheimer's disease. <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, 2021-2022	0.9	5
36	Consistency of the blind source separation computed with five common algorithms for magnetoencephalogram background activity. <i>Medical Engineering and Physics</i> , 2010 , 32, 1137-44	2.4	5
35	Space-time ICA versus Ensemble ICA for ictal EEG analysis with component differentiation via Lempel-Ziv complexity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 5473-6		5
34	Electroencephalogram background activity characterization with approximate entropy and auto mutual information in Alzheimer's disease patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 6192-5		4
33	Decreased Lempel-Ziv complexity in Alzheimer's disease patients' magnetoencephalograms. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 4514-7		4
32	Fractal Dimension of the EEG in Alzheimer's Disease 2008 , 603-609		4
31	Effects of Ageing and Sex on Complexity in the Human Sleep EEG: A Comparison of Three Symbolic Dynamic Analysis Methods. <i>Complexity</i> , 2019 , 2019, 1-12	1.6	3
30	MEG analysis in Alzheimer's disease computing approximate entropy for different frequency bands. <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, 2379-82	0.9	3
29	Study of the MEG background activity in Alzheimer's disease patients with scaling analysis methods. <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, 3485-8	0.9	3
28	Investigation of Alzheimer's Disease EEG Frequency Components with Lempel-Ziv Complexity. <i>IFMBE Proceedings</i> , 2015 , 46-49	0.2	2
27	Sex Differences in the Complexity of Healthy Older Adults' Magnetoencephalograms. <i>Entropy</i> , 2019 , 21,	2.8	2
26	A pilot evaluation of the practicality of the surrey virtual rehabilitation system: perspectives from end-users. <i>International Journal of Biomedical Engineering and Technology</i> , 2014 , 15, 29	1.3	2
25	One dimensional local binary patterns of electroencephalogram signals for detecting Alzheimer's disease 2017 ,		2

24	Optimized assessment of atrial fibrillation organization through suitable parameters of sample Entropy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010, 2010, 118-21</i>	0.9	2
23	Lempel-Ziv Complexity Analysis for the Evaluation of Atrial Fibrillation Organization 2011,		2
22	Deep learning of resting-state electroencephalogram signals for three-class classification of Alzheimer's disease, mild cognitive impairment and healthy ageing. <i>Journal of Neural Engineering, 2021, 18,</i>	5	2
21	Time course of cortical response complexity during extended wakefulness and its differential association with vigilance in young and older individuals. <i>Biochemical Pharmacology, 2021, 191, 114518</i>	6	2
20	Intracranial pressure for the characterization of different types of hydrocephalus: A Permutation Entropy study. <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, 4198-201</i>	0.9	1
19	Analysis of intracranial pressure signals recorded during infusion studies using the spectral entropy. <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, 2543-6</i>	0.9	1
18	Nonlinear forecasting measurement of magnetoencephalogram recordings from Alzheimer's disease patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008, 2008, 2153-6</i>	0.9	1
17	Reply to Comment on Analysis of electroencephalograms in Alzheimer's disease patients with multiscale entropy <i>Physiological Measurement, 2007, 28, L3-L7</i>	2.9	1
16	Magnetoencephalogram blind source separation and component selection procedure to improve the diagnosis of Alzheimer's disease patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5437-40</i>		1
15	Electroencephalogram analysis with approximate entropy to help in the diagnosis of Alzheimer's disease		1
14	Approximate entropy from overnight pulse oximetry for the obstructive sleep apnea syndrome. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2005, 2005, 6157-60</i>		1
13	Pulse amplitude and Lempel-Ziv complexity of the cerebrospinal fluid pressure signal. <i>Acta Neurochirurgica Supplementum, 2012, 114, 23-7</i>	1.7	1
12	Inspection of short-time resting-state electroencephalogram functional networks in Alzheimer's disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016, 2810-2813</i>	0.9	1
11	Prediction of Paroxysmal Atrial Fibrillation From Complexity Analysis of the Sinus Rhythm ECG: A Retrospective Case/Control Pilot Study. <i>Frontiers in Physiology, 2021, 12, 570705</i>	4.6	1
10	Rejection of artifact sources in magnetoencephalogram background activity using independent component analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, 2006, 5282-5</i>		0
9	Influence of Duodenal-jejunal Implantation on Glucose Dynamics: A Pilot Study Using Different Nonlinear Methods. <i>Complexity, 2019, 2019, 1-10</i>	1.6	
8	Characterisation of the complexity of intracranial pressure signals measured from idiopathic and secondary normal pressure hydrocephalus patients. <i>Healthcare Technology Letters, 2016, 3, 226-229</i>	1.9	
7	Recent Improvements on Complexity Measures for Time Series. <i>Complexity, 2019, 2019, 1-2</i>	1.6	

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| 6 | Reply to the comment by Carmelo Anile on the paper "Complexity analysis of the cerebrospinal fluid pulse waveform during infusion studies". <i>Child's Nervous System</i> , 2012 , 28, 17-8 | 1.7 |
| 5 | Volume conduction effects on bivariate Lempel-Ziv Complexity of Alzheimer's disease electroencephalograms. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 7111-7117 | 0.9 |
| 4 | On the application of the auto mutual information rate of decrease to biomedical signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 2137-40 | 0.9 |
| 3 | Applying Independent Component Analysis to the Artifact Detection Problem in Magnetoencephalogram Background Recordings 2008 , 84-92 | |
| 2 | Regularity Analysis of the Magnetoencephalogram Background Activity in Alzheimer's Disease Patients Using Auto Mutual Information 2008 , 1146-1152 | |
| 1 | Investigation of Changes in Causality Throughout Life's Magnetoencephalogram Study Using Granger Causality and Transfer Entropy. <i>IFMBE Proceedings</i> , 2019 , 233-236 | 0.2 |