

Ralph Gregor Andrzejak

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

7,201
citations

136950

32
h-index

133252

59
g-index

72
all docs

72
docs citations

72
times ranked

4939
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase irregularity: A conceptually simple and efficient approach to characterize electroencephalographic recordings from epilepsy patients. <i>Physical Review E</i> , 2022, 105, 034212.	2.1	2
2	Seizure Cycles in Focal Epilepsy. <i>JAMA Neurology</i> , 2021, 78, 454.	9.0	91
3	Chimeras confined by fractal boundaries in the complex plane. <i>Chaos</i> , 2021, 31, 053104.	2.5	5
4	Seizure Onset Zone Lateralization Using a Non-linear Analysis of Micro vs. Macro Electroencephalographic Recordings During Seizure-Free Stages of the Sleep-Wake Cycle From Epilepsy Patients. <i>Frontiers in Neurology</i> , 2020, 11, 553885.	2.4	4
5	Two populations of coupled quadratic maps exhibit a plentitude of symmetric and symmetry broken dynamics. <i>Chaos</i> , 2020, 30, 033125.	2.5	6
6	Remote pacemaker control of chimera states in multilayer networks of neurons. <i>Physical Review E</i> , 2020, 102, 052216.	2.1	25
7	Inferring directed networks using a rank-based connectivity measure. <i>Physical Review E</i> , 2019, 99, 012319.	2.1	11
8	Controlling chimera states via minimal coupling modification. <i>Chaos</i> , 2019, 29, 051103.	2.5	25
9	Editorial: Chimera States in Complex Networks. <i>Frontiers in Applied Mathematics and Statistics</i> , 2019, 5, .	1.3	14
10	Mean field phase synchronization between chimera states. <i>Chaos</i> , 2018, 28, 091101.	2.5	19
11	Coupling strength versus coupling impact in nonidentical bidirectionally coupled dynamics. <i>Physical Review E</i> , 2017, 95, 012210.	2.1	8
12	Generalized synchronization between chimera states. <i>Chaos</i> , 2017, 27, 053114.	2.5	65
13	Evolutionary optimization of network reconstruction from derivative-variable correlations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 334001.	2.1	11
14	Robustness and versatility of a nonlinear interdependence method for directional coupling detection from spike trains. <i>Physical Review E</i> , 2017, 96, 022203.	2.1	7
15	All together now: Analogies between chimera state collapses and epileptic seizures. <i>Scientific Reports</i> , 2016, 6, 23000.	3.3	133
16	Seizure prediction: making mileage on the long and winding road. <i>Brain</i> , 2016, 139, 1625-1627.	7.6	37
17	Ictal time-irreversible intracranial EEG signals as markers of the epileptogenic zone. <i>Clinical Neurophysiology</i> , 2016, 127, 3051-3058.	1.5	30
18	Resected Brain Tissue, Seizure Onset Zone and Quantitative EEG Measures: Towards Prediction of Post-Surgical Seizure Control. <i>PLoS ONE</i> , 2015, 10, e0141023.	2.5	43

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19	Localization of Epileptogenic Zone on Pre-surgical Intracranial EEG Recordings: Toward a Validation of Quantitative Signal Analysis Approaches. <i>Brain Topography</i> , 2015, 28, 832-837.	1.8	58
20	Detecting determinism from point processes. <i>Physical Review E</i> , 2014, 90, 062906.	2.1	6
21	Evaluation of causality measures based on non-uniform embedding schemes with application to the cardiovascular system. , 2014, , .		0
22	Detecting determinism with improved sensitivity in time series: Rank-based nonlinear predictability score. <i>Physical Review E</i> , 2014, 90, 032913.	2.1	13
23	Detecting couplings between point processes and flows. <i>IEICE Proceeding Series</i> , 2014, 1, 381-381.	0.0	0
24	Monitoring spike train synchrony. <i>Journal of Neurophysiology</i> , 2013, 109, 1457-1472.	1.8	127
25	Sleep modulation of epileptic activity in mesial and neocortical temporal lobe epilepsy: A study with depth and subdural electrodes. <i>Epilepsy and Behavior</i> , 2013, 28, 185-190.	1.7	28
26	Methodological Advances in Brain Connectivity. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-2.	1.3	6
27	Nonrandomness, nonlinear dependence, and nonstationarity of electroencephalographic recordings from epilepsy patients. <i>Physical Review E</i> , 2012, 86, 046206.	2.1	297
28	Nonlinear audio recurrence analysis with application to genre classification. , 2011, , .		5
29	Characterizing unidirectional couplings between point processes and flows. <i>Europhysics Letters</i> , 2011, 96, 50012.	2.0	27
30	Using bivariate signal analysis to characterize the epileptic focus: The benefit of surrogates. <i>Physical Review E</i> , 2011, 83, 046203.	2.1	49
31	Predictability of Music Descriptor Time Series and its Application to Cover Song Detection. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2011, , .	3.2	14
32	Inferring and quantifying causality in neuronal networks. <i>BMC Neuroscience</i> , 2011, 12, .	1.9	6
33	Time-resolved and time-scale adaptive measures of spike train synchrony. <i>Journal of Neuroscience Methods</i> , 2011, 195, 92-106.	2.5	62
34	What can spike train distances tell us about the neural code?. <i>Journal of Neuroscience Methods</i> , 2011, 199, 146-165.	2.5	26
35	Model-based cover song detection via threshold autoregressive forecasts. , 2010, , .		1
36	Reliable detection of directional couplings using rank statistics. <i>Physical Review E</i> , 2009, 80, 026217.	2.1	95

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37	Cross recurrence quantification for cover song identification. <i>New Journal of Physics</i> , 2009, 11, 093017.	2.9	100
38	Studying the precision of temporal neural code: some limitations of spike train distances. <i>BMC Neuroscience</i> , 2009, 10, .	1.9	0
39	Measuring spike train synchrony between neuronal populations. <i>BMC Neuroscience</i> , 2009, 10, .	1.9	0
40	Measuring multiple spike train synchrony. <i>Journal of Neuroscience Methods</i> , 2009, 183, 287-299.	2.5	51
41	Seizure prediction: Any better than chance?. <i>Clinical Neurophysiology</i> , 2009, 120, 1465-1478.	1.5	87
42	A new measure for the detection of directional couplings based on rank statistics. <i>BMC Neuroscience</i> , 2008, 9, .	1.9	0
43	Measuring spike train reliability. <i>BMC Neuroscience</i> , 2008, 9, .	1.9	0
44	Independent delta/theta rhythms in the human hippocampus and entorhinal cortex. <i>Frontiers in Human Neuroscience</i> , 2008, 2, 3.	2.0	64
45	Seizure prediction: the long and winding road. <i>Brain</i> , 2007, 130, 314-333.	7.6	919
46	Measuring synchronization in coupled model systems: A comparison of different approaches. <i>Physica D: Nonlinear Phenomena</i> , 2007, 225, 29-42.	2.8	171
47	Analysis of coupled decision-making modules for multisensory integration. <i>BMC Neuroscience</i> , 2007, 8, .	1.9	0
48	Improved spatial characterization of the epileptic brain by focusing on nonlinearity. <i>Epilepsy Research</i> , 2006, 69, 30-44.	1.6	74
49	A distributed computing system for multivariate time series analyses of multichannel neurophysiological data. <i>Journal of Neuroscience Methods</i> , 2006, 152, 190-201.	2.5	18
50	Detecting event-related time-dependent directional couplings. <i>New Journal of Physics</i> , 2006, 8, 6-6.	2.9	31
51	Seizure Anticipation: Do Mathematical Measures Correlate with Video-EEG Evaluation?. <i>Epilepsia</i> , 2005, 46, 1335-1336.	5.1	5
52	Hierarchical clustering using mutual information. <i>Europhysics Letters</i> , 2005, 70, 278-284.	2.0	194
53	Detection of weak directional coupling: Phase-dynamics approach versus state-space approach. <i>Physical Review E</i> , 2005, 71, 036207.	2.1	90
54	On the predictability of epileptic seizures. <i>Clinical Neurophysiology</i> , 2005, 116, 569-587.	1.5	442

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55	Improved statistical test for nonstationarity using recurrence time statistics. Physical Review E, 2004, 69, 046111.	2.1	15
56	Measure profile surrogates: A method to validate the performance of epileptic seizure prediction algorithms. Physical Review E, 2004, 69, 061915.	2.1	66
57	Reliability of ICA Estimates with Mutual Information. Lecture Notes in Computer Science, 2004, , 209-216.	1.3	4
58	Seizure prediction by nonlinear EEG analysis. IEEE Engineering in Medicine and Biology Magazine, 2003, 22, 57-63.	0.8	127
59	Discerning nonstationarity from nonlinearity in seizure-free and pre-seizure EEG recordings from epilepsy patients. IEEE Transactions on Biomedical Engineering, 2003, 50, 634-639.	4.2	32
60	Epileptic seizures are preceded by a decrease in synchronization. Epilepsy Research, 2003, 53, 173-185.	1.6	407
61	Testing the null hypothesis of the nonexistence of a pre-seizure state. Physical Review E, 2003, 67, 010901.	2.1	122
62	Automated detection of a pre-seizure state based on a decrease in synchronization in intracranial electroencephalogram recordings from epilepsy patients. Physical Review E, 2003, 67, 021912.	2.1	184
63	Bivariate surrogate techniques: Necessity, strengths, and caveats. Physical Review E, 2003, 68, 066202.	2.1	107
64	Measuring Nonstationarity by Analyzing the Loss of Recurrence in Dynamical Systems. Physical Review Letters, 2002, 88, 244102.	7.8	47
65	ANALYSIS OF EEG IN EPILEPSY. , 2002, , .		0
66	Indications of nonlinear deterministic and finite-dimensional structures in time series of brain electrical activity: Dependence on recording region and brain state. Physical Review E, 2001, 64, 061907.	2.1	2,068
67	Its Possible Use for Interictal Focus Localization, Seizure Anticipation, and Prevention. Journal of Clinical Neurophysiology, 2001, 18, 209-222.	1.7	173
68	The epileptic process as nonlinear deterministic dynamics in a stochastic environment: an evaluation on mesial temporal lobe epilepsy. Epilepsy Research, 2001, 44, 129-140.	1.6	159
69	Nonlinear EEG Analysis and Its Potential Role in Epileptology. Epilepsia, 2000, 41, S34-S38.	5.1	77
70	Characterizing the spatio-temporal dynamics of the epileptogenic process with nonlinear EEG analyses. , 0, , .		2
71	What Models and Tools can Contribute to a Better Understanding of Brain Activity?. Frontiers in Network Physiology, 0, 2, .	1.8	8