

Ralph Gregor Andrzejak

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

7,201
citations

136740

32
h-index

133063

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.	0.8	2
2	Seizure Cycles in Focal Epilepsy. <i>JAMA Neurology</i> , 2021, 78, 454.	4.5	91
3	Chimeras confined by fractal boundaries in the complex plane. <i>Chaos</i> , 2021, 31, 053104.	1.0	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.	1.1	4
5	Two populations of coupled quadratic maps exhibit a plentitude of symmetric and symmetry broken dynamics. <i>Chaos</i> , 2020, 30, 033125.	1.0	6
6	Remote pacemaker control of chimera states in multilayer networks of neurons. <i>Physical Review E</i> , 2020, 102, 052216.	0.8	25
7	Inferring directed networks using a rank-based connectivity measure. <i>Physical Review E</i> , 2019, 99, 012319.	0.8	11
8	Controlling chimera states via minimal coupling modification. <i>Chaos</i> , 2019, 29, 051103.	1.0	25
9	Editorial: Chimera States in Complex Networks. <i>Frontiers in Applied Mathematics and Statistics</i> , 2019, 5, .	0.7	14
10	Mean field phase synchronization between chimera states. <i>Chaos</i> , 2018, 28, 091101.	1.0	19
11	Coupling strength versus coupling impact in nonidentical bidirectionally coupled dynamics. <i>Physical Review E</i> , 2017, 95, 012210.	0.8	8
12	Generalized synchronization between chimera states. <i>Chaos</i> , 2017, 27, 053114.	1.0	65
13	Evolutionary optimization of network reconstruction from derivative-variable correlations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 334001.	0.7	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.	0.8	7
15	All together now: Analogies between chimera state collapses and epileptic seizures. <i>Scientific Reports</i> , 2016, 6, 23000.	1.6	133
16	Seizure prediction: making mileage on the long and winding road. <i>Brain</i> , 2016, 139, 1625-1627.	3.7	37
17	Ictal time-irreversible intracranial EEG signals as markers of the epileptogenic zone. <i>Clinical Neurophysiology</i> , 2016, 127, 3051-3058.	0.7	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.	1.1	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.	0.8	58
20	Detecting determinism from point processes. <i>Physical Review E</i> , 2014, 90, 062906.	0.8	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.	0.8	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.	0.9	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.	0.9	28
26	Methodological Advances in Brain Connectivity. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-2.	0.7	6
27	Nonrandomness, nonlinear dependence, and nonstationarity of electroencephalographic recordings from epilepsy patients. <i>Physical Review E</i> , 2012, 86, 046206.	0.8	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.	0.7	27
30	Using bivariate signal analysis to characterize the epileptic focus: The benefit of surrogates. <i>Physical Review E</i> , 2011, 83, 046203.	0.8	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, , .	3.8	14
32	Inferring and quantifying causality in neuronal networks. <i>BMC Neuroscience</i> , 2011, 12, .	0.8	6
33	Time-resolved and time-scale adaptive measures of spike train synchrony. <i>Journal of Neuroscience Methods</i> , 2011, 195, 92-106.	1.3	62
34	What can spike train distances tell us about the neural code?. <i>Journal of Neuroscience Methods</i> , 2011, 199, 146-165.	1.3	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.	0.8	95

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37	Cross recurrence quantification for cover song identification. <i>New Journal of Physics</i> , 2009, 11, 093017.	1.2	100
38	Studying the precision of temporal neural code: some limitations of spike train distances. <i>BMC Neuroscience</i> , 2009, 10, .	0.8	0
39	Measuring spike train synchrony between neuronal populations. <i>BMC Neuroscience</i> , 2009, 10, .	0.8	0
40	Measuring multiple spike train synchrony. <i>Journal of Neuroscience Methods</i> , 2009, 183, 287-299.	1.3	51
41	Seizure prediction: Any better than chance?. <i>Clinical Neurophysiology</i> , 2009, 120, 1465-1478.	0.7	87
42	A new measure for the detection of directional couplings based on rank statistics. <i>BMC Neuroscience</i> , 2008, 9, .	0.8	0
43	Measuring spike train reliability. <i>BMC Neuroscience</i> , 2008, 9, .	0.8	0
44	Independent delta/theta rhythms in the human hippocampus and entorhinal cortex. <i>Frontiers in Human Neuroscience</i> , 2008, 2, 3.	1.0	64
45	Seizure prediction: the long and winding road. <i>Brain</i> , 2007, 130, 314-333.	3.7	919
46	Measuring synchronization in coupled model systems: A comparison of different approaches. <i>Physica D: Nonlinear Phenomena</i> , 2007, 225, 29-42.	1.3	171
47	Analysis of coupled decision-making modules for multisensory integration. <i>BMC Neuroscience</i> , 2007, 8, .	0.8	0
48	Improved spatial characterization of the epileptic brain by focusing on nonlinearity. <i>Epilepsy Research</i> , 2006, 69, 30-44.	0.8	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.	1.3	18
50	Detecting event-related time-dependent directional couplings. <i>New Journal of Physics</i> , 2006, 8, 6-6.	1.2	31
51	Seizure Anticipation: Do Mathematical Measures Correlate with Video-EEG Evaluation?. <i>Epilepsia</i> , 2005, 46, 1335-1336.	2.6	5
52	Hierarchical clustering using mutual information. <i>Europhysics Letters</i> , 2005, 70, 278-284.	0.7	194
53	Detection of weak directional coupling: Phase-dynamics approach versus state-space approach. <i>Physical Review E</i> , 2005, 71, 036207.	0.8	90
54	On the predictability of epileptic seizures. <i>Clinical Neurophysiology</i> , 2005, 116, 569-587.	0.7	442

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55	Improved statistical test for nonstationarity using recurrence time statistics. <i>Physical Review E</i> , 2004, 69, 046111.	0.8	15
56	Measure profile surrogates: A method to validate the performance of epileptic seizure prediction algorithms. <i>Physical Review E</i> , 2004, 69, 061915.	0.8	66
57	Reliability of ICA Estimates with Mutual Information. <i>Lecture Notes in Computer Science</i> , 2004, , 209-216.	1.0	4
58	Seizure prediction by nonlinear EEG analysis. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2003, 22, 57-63.	1.1	127
59	Discerning nonstationarity from nonlinearity in seizure-free and pre-seizure EEG recordings from epilepsy patients. <i>IEEE Transactions on Biomedical Engineering</i> , 2003, 50, 634-639.	2.5	32
60	Epileptic seizures are preceded by a decrease in synchronization. <i>Epilepsy Research</i> , 2003, 53, 173-185.	0.8	407
61	Testing the null hypothesis of the nonexistence of a pre-seizure state. <i>Physical Review E</i> , 2003, 67, 010901.	0.8	122
62	Automated detection of a pre-seizure state based on a decrease in synchronization in intracranial electroencephalogram recordings from epilepsy patients. <i>Physical Review E</i> , 2003, 67, 021912.	0.8	184
63	Bivariate surrogate techniques: Necessity, strengths, and caveats. <i>Physical Review E</i> , 2003, 68, 066202.	0.8	107
64	Measuring Nonstationarity by Analyzing the Loss of Recurrence in Dynamical Systems. <i>Physical Review Letters</i> , 2002, 88, 244102.	2.9	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. <i>Physical Review E</i> , 2001, 64, 061907.	0.8	2,068
67	Its Possible Use for Interictal Focus Localization, Seizure Anticipation, and Prevention. <i>Journal of Clinical Neurophysiology</i> , 2001, 18, 209-222.	0.9	173
68	The epileptic process as nonlinear deterministic dynamics in a stochastic environment: an evaluation on mesial temporal lobe epilepsy. <i>Epilepsy Research</i> , 2001, 44, 129-140.	0.8	159
69	Nonlinear EEG Analysis and Its Potential Role in Epileptology. <i>Epilepsia</i> , 2000, 41, S34-S38.	2.6	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?. <i>Frontiers in Network Physiology</i> , 0, 2, .	0.8	8