Dimitris Kugiumtzis

List of Publications by Year
in descending order

93	2,714	185998 28	197535 49
papers	citations	h-index	g-index

97	97	97	2350
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Clinical utility and prospective of TMSâ€“EEG. Clinical Neurophysiology, 2019, 130, 802-844.	0.7	276
2	State space reconstruction parameters in the analysis of chaotic time series â€” the role of the time window length. Physica D: Nonlinear Phenomena, 1996, 95, 13-28.	1.3	259
3	Nonuniform state-space reconstruction and coupling detection. Physical Review E, 2010, 82, 016207.	0.8	150
4	Direct-coupling information measure from nonuniform embedding. Physical Review E, 2013, 87, 062918.	0.8	110
5	Test your surrogate data before you test for nonlinearity. Physical Review E, 1999, 60, 2808-2816.	0.8	108
6	Regularized local linear prediction of chaotic time series. Physica D: Nonlinear Phenomena, 1998, 112, 344-360.	1.3	86
7	Granger Causality in Multivariate Time Series Using a Time-Ordered Restricted Vector Autoregressive Model. IEEE Transactions on Signal Processing, 2016, 64, 1759-1773.	3.2	81
8	Estimating the decomposition of predictive information in multivariate systems. Physical Review E, 2015, 91, 032904.	0.8	73
9	Simulation Study of Direct Causality Measures in Multivariate Time Series. Entropy, 2013, 15, 2635-2661.	1.1	69
10	Measures of Analysis of Time Series (MATS): AMATLABToolkit for Computation of Multiple Measures on Time Series Data Bases. Journal of Statistical Software, 2010, 33, .	1.8	65
11	Financial networks based on Granger causality: A case study. Physica A: Statistical Mechanics and Its Applications, 2017, 482, 65-73.	1.2	58
12	Partial transfer entropy on rank vectors. European Physical Journal: Special Topics, 2013, 222, 401-420.	1.2	57
13	TRANSCRANIAL MAGNETIC STIMULATION (TMS) MODULATES EPILEPTIFORM DISCHARGES IN PATIENTS WITH FRONTAL LOBE EPILEPSY: A PRELIMINARY EEG-TMS STUDY. International Journal of Neural Systems, 2013, 23, 1250035.	3.2	56
14	Detecting Causality in Non-stationary Time Series Using Partial Symbolic Transfer Entropy: Evidence in Financial Data. Computational Economics, 2016, 47, 341-365.	1.5	55
15	Surrogate data test for nonlinearity including nonmonotonic transforms. Physical Review E, 2000, 62, R25-R28.	0.8	52
16	EVALUATION OF MUTUAL INFORMATION ESTIMATORS FOR TIME SERIES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 4197-4215.	0.7	47
17	A prediction scheme using perceptually important points and dynamic time warping. Expert Systems With Applications, 2014, 41, 6848-6860.	4.4	46
18	Chaotic time series. Part I. Estimation of some invariant properties in state-space. Modeling, Identification and Control, 1994, 15, 205-224.	0.6	45

#	Article	IF	Citations
19	Decoding Motor Imagery through Common Spatial Pattern Filters at the EEG Source Space. Computational Intelligence and Neuroscience, 2018, 2018, 1-10.	1.1	41
20	ON THE RELIABILITY OF THE SURROGATE DATA TEST FOR NONLINEARITY IN THE ANALYSIS OF NOISY TIME SERIES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 1881-1896.	0.7	40
21	DETECTION OF DIRECT CAUSAL EFFECTS AND APPLICATION TO EPILEPTIC ELECTROENCEPHALOGRAM ANALYSIS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250222.	0.7	40
22	Direct Causal Networks for the Study of Transcranial Magnetic Stimulation Effects on Focal Epileptiform Discharges. International Journal of Neural Systems, 2015, 25, 1550006.	3.2	40
23	Reducing the bias of causality measures. Physical Review E, 2011, 83, 036207.	0.8	39
24	TMS combined with EEG in genetic generalized epilepsy: A phase II diagnostic accuracy study. Clinical Neurophysiology, 2017, 128, 367-381.	0.7	37
25	Chaotic time series. Part II. System Identification and Prediction. Modeling, Identification and Control, 1994, 15, 225-245.	0.6	35
26	Statically transformed autoregressive process and surrogate data test for nonlinearity. Physical Review E, 2002, 66, 025201.	0.8	34
27	Evaluation of Granger Causality Measures for Constructing Networks from Multivariate Time Series. Entropy, 2019, 21, 1080.	1.1	34
28	Nonlinear analysis of magnetospheric data Part I. Geometric characteristics of the AE index time series and comparison with nonlinear surrogate data. Nonlinear Processes in Geophysics, 1999, 6, 51-65.	0.6	32
29	The Concept of Effective Inflow: Application to Interictal Localization of the Epileptogenic Focus From iEEG. IEEE Transactions on Biomedical Engineering, 2017, 64, 2241-2252.	2.5	30
30	Surrogate Data Test on Time Series. Studies in Computational Finance, 2002, , 267-282.	0.1	27
31	Nearest neighbor estimate of conditional mutual information in feature selection. Expert Systems With Applications, 2012, 39, 12697-12708.	4.4	26
32	Transcranial Magnetic Stimulation Combined with EEG Reveals Covert States of Elevated Excitability in the Human Epileptic Brain. International Journal of Neural Systems, 2015, 25, 1550018.	3.2	25
33	Detecting synchronization in coupled stochastic ecosystem networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 507-515.	0.9	21
34	Discrimination of coupling structures using causality networks from multivariate time series. Chaos, 2016, 26, 093120.	1.0	21
35	Assessment of resampling methods for causality testing: A note on the US inflation behavior. PLoS ONE, 2017, 12, e0180852.	1.1	21
36	Markov chain order estimation with conditional mutual information. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 1593-1601.	1.2	20

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37	Dynamics of Epileptiform Discharges Induced by Transcranial Magnetic Stimulation in Genetic Generalized Epilepsy. International Journal of Neural Systems, 2017, 27, 1750037.	3.2	20
38	Statistical analysis of the extreme values of stress time series from the Portevinâ€“Le ChÃ¢telier effect. Physical Review E, 2004, 70, 036110.	0.8	19
39	Removing artifacts from TMS-evoked EEG: A methods review and a unifying theoretical framework. Journal of Neuroscience Methods, 2022, 376, 109591.	1.3	19
40	Nonlinear analysis of magnetospheric data Part II. Dynamical characteristics of the AE index time series and comparison with nonlinear surrogate data. Nonlinear Processes in Geophysics, 1999, 6, 79-98.	0.6	18
41	Testing the structure of earthquake networks from multivariate time series of successive main shocks in Greece. Physica A: Statistical Mechanics and Its Applications, 2018, 499, 28-39.	1.2	18
42	Correlation Networks for Identifying Changes in Brain Connectivity during Epileptiform Discharges and Transcranial Magnetic Stimulation. Sensors, 2014, 14, 12585-12597.	2.1	17
43	A Novel Connectome-based Electrophysiological Study of Subjective Cognitive Decline Related to Alzheimerâ€™s Disease by Using Resting-state High-density EEG EGI GES 300. Brain Sciences, 2020, 10, 392.	1.1	17
44	Application of complex network theory to the recent foreshock sequences of Methoni (2008) and Kefalonia (2014) in Greece. Acta Geophysica, 2017, 65, 543-553.	1.0	16
45	Identification of Hidden Sources by Estimating Instantaneous Causality in High-Dimensional Biomedical Time Series. International Journal of Neural Systems, 2019, 29, 1850051.	3.2	16
46	State Space Reconstruction from Multiple Time Series. , 2009, , .		16
47	Procedure for Estimating the Correlation Dimension of Optokinetic Nystagmus Signals. Journal of Biomedical Informatics, 1997, 30, 95-116.	0.7	15
48	Correction of the Correlation Dimension for Noisy Time Series. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1997, 07, 1283-1294.	0.7	14
49	Normal correlation coefficient of non-normal variables using piece-wise linear approximation. Computational Statistics, 2010, 25, 645-662.	0.8	14
50	Investigating long range correlation in DNA sequences using significance tests of conditional mutual information. Computational Biology and Chemistry, 2014, 53, 32-42.	1.1	14
51	Evaluation of Surrogate and Bootstrap Tests for Nonlinearity in Time Series. Studies in Nonlinear Dynamics and Econometrics, 2008, 12, .	0.2	13
52	Further insights on the relationship between SP500, VIX and volume: a new asymmetric causality test. European Journal of Finance, 2019, 25, 1402-1419.	1.7	12
53	Influence of Preparation Depth and Design on Stress Distribution in Maxillary Central Incisors Restored with Ceramic Veneers: A 3D Finite Element Analysis. Journal of Prosthodontics, 2020, 29, 151-160.	1.7	12
54	Assessing different norms in nonlinear analysis of noisy time series. Physica D: Nonlinear Phenomena, 1997, 105, 62-78.	1.3	11

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55	Nonparametric testing of variability and trend in some climatic records. Climatic Change, 2011, 109, 549-568.	1.7	10
56	Feature selection for classification of oscillating time series. Expert Systems, 2012, 29, 456-477.	2.9	10
57	New Material of the Hominoid Ouranopithecus macedoniensis from the Late Miocene of the Axios Valley (Macedonia, Greece) with Some Remarks on Its Sexual Dimorphism. Folia Primatologica, 2016, 87, 94-122.	0.3	10
58	Markov chain order estimation with parametric significance tests of conditional mutual information. Simulation Modelling Practice and Theory, 2016, 61, 1-13.	2.2	9
59	Dimension reduction of frequency-based direct Granger causality measures on short time series. Journal of Neuroscience Methods, 2017, 289, 64-74.	1.3	9
60	Investigating small-world and scale-free structure of earthquake networks in Greece. Chaos, Solitons and Fractals, 2019, 122, 143-152.	2.5	9
61	Statistical analysis of gene and intergenic DNA sequences. Physica A: Statistical Mechanics and Its Applications, 2004, 342, 623-638.	1.2	8
62	Detecting direct causality in multivariate time series: A comparative study. Communications in Nonlinear Science and Numerical Simulation, 2021, 99, 105797.	1.7	8
63	Theoretical Considerations and a Mathematical Model for the Analysis of the Biomechanical Response of Human Keratinized Oral Mucosa. Frontiers in Physiology, 2016, 7, 364.	1.3	7
64	LINEAR AND NONLINEAR ANALYSIS OF EEG FOR THE PREDICTION OF EPILEPTIC SEIZURES. , 2000, , .		7
65	Phase-based causality analysis with partial mutual information from mixed embedding. Chaos, 2022, 32, .	1.0	7
66	Evaluation of Linear Trend Tests Using Resampling Techniques. Communications in Statistics Part B: Simulation and Computation, 2008, 37, 907-923.	0.6	6
67	Methodological Advances in Brain Connectivity. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-2.	0.7	6
68	Backwardâ€inâ€Time Selection of the Order of Dynamic Regression Prediction Model. Journal of Forecasting, 2013, 32, 685-701.	1.6	6
69	Dimension Reduction of Polynomial Regression Models for the Estimation of Granger Causality in High-Dimensional Time Series. IEEE Transactions on Signal Processing, 2021, 69, 5638-5650.	3.2	6
70	Simulation of multivariate non-gaussian autoregressive time series with given autocovariance and marginals. Simulation Modelling Practice and Theory, 2014, 44, 42-53.	2.2	5
71	Causality networks from multivariate time series and application to epilepsy. , 2015, 2015, 4041-4.		5
72	Estimation of connectivity measures in gappy time series. Physica A: Statistical Mechanics and Its Applications, 2015, 436, 387-398.	1.2	5

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73	TMS-induced brain connectivity modulation in Genetic Generalized Epilepsy. Clinical Neurophysiology, 2022, 133, 83-93.	0.7	5
74	Statistical Analysis for Long Term Correlations in the Stress Time Series of Jerky Flow. Journal of the Mechanical Behavior of Materials, 2004, 15, 135-148.	0.7	4
75	Tsallis conditional mutual information in investigating long range correlation in symbol sequences. Physica A: Statistical Mechanics and Its Applications, 2020, 540, 123016.	1.2	4
76	Comparison of Causality Network Estimation in the Sensor and Source Space: Simulation and Application on EEG. Frontiers in Network Physiology, 2021, 1, .	0.8	4
77	Evaluation of algorithms for correction of transcranial magnetic stimulation-induced artifacts in electroencephalograms. Medical and Biological Engineering and Computing, 2019, 57, 2599-2615.	1.6	3
78	Testing the randomness of correlation networks from multivariate time series. Journal of Complex Networks, 2019, 7, 190-209.	1.1	3
79	Estimation model for kinematic calibration of manipulators with a parallel structure. Journal of Field Robotics, 1994, 11, 399-410.	0.7	2
80	Local prediction of turning points of oscillating time series. Physical Review E, 2008, 78, 036206.	0.8	2
81	The Effect of a Hidden Source on the Estimation of Connectivity Networks from Multivariate Time Series. Entropy, 2021, 23, 208.	1.1	2
82	State Space Local Linear Prediction. Studies in Computational Finance, 2002, , 95-113.	0.1	2
83	Detection of Directionality of Information Transfer in Nonlinear Dynamical Systems. , 2009, , .		2
84	Species mobility induces synchronization in chaotic population dynamics. Physical Review E, 2011, 84, 036211.	0.8	1
85	EEG Features as Biomarkers for Discrimination of Preictal States. Springer Optimization and Its Applications, 2012, , 31-56.	0.6	1
86	Comparison of Resampling Techniques for the Non-causality Hypothesis. Springer Proceedings in Mathematics and Statistics, 2014, , 419-429.	0.1	1
87	P11-14 Transcranial magnetic stimulation terminates epileptiform discharges in patients with partial epilepsy: a combined EEG-TMS study. Clinical Neurophysiology, 2010, 121, S168.	0.7	0
88	Dimensionality reduction for enhanced 3D face recognition. , 2013, , .		0
89	Evaluation of causality measures based on non-uniform embedding schemes with application to the cardiovascular system. , 2014, , .		0
90	Classification methods can identify external constrains in swimming. Journal of Biomechanics, 2019, 82, 381-386.	0.9	0

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91	Investigation of the correlation of successive earthquakes preceding main shocks in the Greek territory. Journal of Applied Statistics, 2022, 49, 3495-3512.	0.6	0
92	Rendering statistical significance of information flow measures. , 2011, , .		0
93	RANKING OF SEISMIC ZONES IN GREECE USING MEASURES OF NETWORKS FORMED FROM EARTHQUAKE HISTORICAL DATA. Bulletin of the Geological Society of Greece, 2017, 50, 1300.	0.2	0