

Dimitris Kugiumtzis

List of Publications by Year in descending order

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93
papers

2,714
citations

185998

28
h-index

197535

49
g-index

97
all docs

97
docs citations

97
times ranked

2350
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of the correlation of successive earthquakes preceding main shocks in the Greek territory. <i>Journal of Applied Statistics</i> , 2022, 49, 3495-3512.	0.6	0
2	TMS-induced brain connectivity modulation in Genetic Generalized Epilepsy. <i>Clinical Neurophysiology</i> , 2022, 133, 83-93.	0.7	5
3	Removing artifacts from TMS-evoked EEG: A methods review and a unifying theoretical framework. <i>Journal of Neuroscience Methods</i> , 2022, 376, 109591.	1.3	19
4	Phase-based causality analysis with partial mutual information from mixed embedding. <i>Chaos</i> , 2022, 32, .	1.0	7
5	The Effect of a Hidden Source on the Estimation of Connectivity Networks from Multivariate Time Series. <i>Entropy</i> , 2021, 23, 208.	1.1	2
6	Detecting direct causality in multivariate time series: A comparative study. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 99, 105797.	1.7	8
7	Comparison of Causality Network Estimation in the Sensor and Source Space: Simulation and Application on EEG. <i>Frontiers in Network Physiology</i> , 2021, 1, .	0.8	4
8	Dimension Reduction of Polynomial Regression Models for the Estimation of Granger Causality in High-Dimensional Time Series. <i>IEEE Transactions on Signal Processing</i> , 2021, 69, 5638-5650.	3.2	6
9	Influence of Preparation Depth and Design on Stress Distribution in Maxillary Central Incisors Restored with Ceramic Veneers: A 3D Finite Element Analysis. <i>Journal of Prosthodontics</i> , 2020, 29, 151-160.	1.7	12
10	Tsallis conditional mutual information in investigating long range correlation in symbol sequences. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 540, 123016.	1.2	4
11	A Novel Connectome-based Electrophysiological Study of Subjective Cognitive Decline Related to Alzheimer's Disease by Using Resting-state High-density EEG EGI GES 300. <i>Brain Sciences</i> , 2020, 10, 392.	1.1	17
12	Evaluation of Granger Causality Measures for Constructing Networks from Multivariate Time Series. <i>Entropy</i> , 2019, 21, 1080.	1.1	34
13	Evaluation of algorithms for correction of transcranial magnetic stimulation-induced artifacts in electroencephalograms. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 2599-2615.	1.6	3
14	Clinical utility and prospective of TMS-EEG. <i>Clinical Neurophysiology</i> , 2019, 130, 802-844.	0.7	276
15	Further insights on the relationship between SP500, VIX and volume: a new asymmetric causality test. <i>European Journal of Finance</i> , 2019, 25, 1402-1419.	1.7	12
16	Investigating small-world and scale-free structure of earthquake networks in Greece. <i>Chaos, Solitons and Fractals</i> , 2019, 122, 143-152.	2.5	9
17	Testing the randomness of correlation networks from multivariate time series. <i>Journal of Complex Networks</i> , 2019, 7, 190-209.	1.1	3
18	Identification of Hidden Sources by Estimating Instantaneous Causality in High-Dimensional Biomedical Time Series. <i>International Journal of Neural Systems</i> , 2019, 29, 1850051.	3.2	16

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19	Classification methods can identify external constrains in swimming. <i>Journal of Biomechanics</i> , 2019, 82, 381-386.	0.9	0
20	Testing the structure of earthquake networks from multivariate time series of successive main shocks in Greece. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 499, 28-39.	1.2	18
21	Decoding Motor Imagery through Common Spatial Pattern Filters at the EEG Source Space. <i>Computational Intelligence and Neuroscience</i> , 2018, 2018, 1-10.	1.1	41
22	Financial networks based on Granger causality: A case study. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 482, 65-73.	1.2	58
23	The Concept of Effective Inflow: Application to Interictal Localization of the Epileptogenic Focus From iEEG. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 2241-2252.	2.5	30
24	Dynamics of Epileptiform Discharges Induced by Transcranial Magnetic Stimulation in Genetic Generalized Epilepsy. <i>International Journal of Neural Systems</i> , 2017, 27, 1750037.	3.2	20
25	Dimension reduction of frequency-based direct Granger causality measures on short time series. <i>Journal of Neuroscience Methods</i> , 2017, 289, 64-74.	1.3	9
26	Application of complex network theory to the recent foreshock sequences of Methoni (2008) and Kefalonia (2014) in Greece. <i>Acta Geophysica</i> , 2017, 65, 543-553.	1.0	16
27	TMS combined with EEG in genetic generalized epilepsy: A phase II diagnostic accuracy study. <i>Clinical Neurophysiology</i> , 2017, 128, 367-381.	0.7	37
28	Assessment of resampling methods for causality testing: A note on the US inflation behavior. <i>PLoS ONE</i> , 2017, 12, e0180852.	1.1	21
29	RANKING OF SEISMIC ZONES IN GREECE USING MEASURES OF NETWORKS FORMED FROM EARTHQUAKE HISTORICAL DATA. <i>Bulletin of the Geological Society of Greece</i> , 2017, 50, 1300.	0.2	0
30	Theoretical Considerations and a Mathematical Model for the Analysis of the Biomechanical Response of Human Keratinized Oral Mucosa. <i>Frontiers in Physiology</i> , 2016, 7, 364.	1.3	7
31	Discrimination of coupling structures using causality networks from multivariate time series. <i>Chaos</i> , 2016, 26, 093120.	1.0	21
32	New Material of the Hominoid <i>Ouranopithecus macedoniensis</i> from the Late Miocene of the Axios Valley (Macedonia, Greece) with Some Remarks on Its Sexual Dimorphism. <i>Folia Primatologica</i> , 2016, 87, 94-122.	0.3	10
33	Detecting Causality in Non-stationary Time Series Using Partial Symbolic Transfer Entropy: Evidence in Financial Data. <i>Computational Economics</i> , 2016, 47, 341-365.	1.5	55
34	Granger Causality in Multivariate Time Series Using a Time-Ordered Restricted Vector Autoregressive Model. <i>IEEE Transactions on Signal Processing</i> , 2016, 64, 1759-1773.	3.2	81
35	Markov chain order estimation with parametric significance tests of conditional mutual information. <i>Simulation Modelling Practice and Theory</i> , 2016, 61, 1-13.	2.2	9
36	Estimating the decomposition of predictive information in multivariate systems. <i>Physical Review E</i> , 2015, 91, 032904.	0.8	73

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37	Causality networks from multivariate time series and application to epilepsy. , 2015, 2015, 4041-4.		5
38	Estimation of connectivity measures in gappy time series. Physica A: Statistical Mechanics and Its Applications, 2015, 436, 387-398.	1.2	5
39	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
40	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
41	Correlation Networks for Identifying Changes in Brain Connectivity during Epileptiform Discharges and Transcranial Magnetic Stimulation. Sensors, 2014, 14, 12585-12597.	2.1	17
42	Evaluation of causality measures based on non-uniform embedding schemes with application to the cardiovascular system. , 2014, , .		0
43	A prediction scheme using perceptually important points and dynamic time warping. Expert Systems With Applications, 2014, 41, 6848-6860.	4.4	46
44	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
45	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
46	Comparison of Resampling Techniques for the Non-causality Hypothesis. Springer Proceedings in Mathematics and Statistics, 2014, , 419-429.	0.1	1
47	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
48	Partial transfer entropy on rank vectors. European Physical Journal: Special Topics, 2013, 222, 401-420.	1.2	57
49	Markov chain order estimation with conditional mutual information. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 1593-1601.	1.2	20
50	Simulation Study of Direct Causality Measures in Multivariate Time Series. Entropy, 2013, 15, 2635-2661.	1.1	69
51	Direct-coupling information measure from nonuniform embedding. Physical Review E, 2013, 87, 062918.	0.8	110
52	Backward Time Selection of the Order of Dynamic Regression Prediction Model. Journal of Forecasting, 2013, 32, 685-701.	1.6	6
53	Dimensionality reduction for enhanced 3D face recognition. , 2013, , .		0
54	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

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55	Methodological Advances in Brain Connectivity. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-2.	0.7	6
56	Feature selection for classification of oscillating time series. Expert Systems, 2012, 29, 456-477.	2.9	10
57	Nearest neighbor estimate of conditional mutual information in feature selection. Expert Systems With Applications, 2012, 39, 12697-12708.	4.4	26
58	EEG Features as Biomarkers for Discrimination of Preictal States. Springer Optimization and Its Applications, 2012, , 31-56.	0.6	1
59	Species mobility induces synchronization in chaotic population dynamics. Physical Review E, 2011, 84, 036211.	0.8	1
60	Nonparametric testing of variability and trend in some climatic records. Climatic Change, 2011, 109, 549-568.	1.7	10
61	Reducing the bias of causality measures. Physical Review E, 2011, 83, 036207.	0.8	39
62	Rendering statistical significance of information flow measures. , 2011, , .		0
63	Normal correlation coefficient of non-normal variables using piece-wise linear approximation. Computational Statistics, 2010, 25, 645-662.	0.8	14
64	Detecting synchronization in coupled stochastic ecosystem networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 507-515.	0.9	21
65	Nonuniform state-space reconstruction and coupling detection. Physical Review E, 2010, 82, 016207.	0.8	150
66	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
67	Measures of Analysis of Time Series (MATS): A<i>MATLAB</i> Toolkit for Computation of Multiple Measures on Time Series Data Bases. Journal of Statistical Software, 2010, 33, .	1.8	65
68	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
69	State Space Reconstruction from Multiple Time Series. , 2009, , .		16
70	Detection of Directionality of Information Transfer in Nonlinear Dynamical Systems. , 2009, , .		2
71	Evaluation of Surrogate and Bootstrap Tests for Nonlinearity in Time Series. Studies in Nonlinear Dynamics and Econometrics, 2008, 12, .	0.2	13
72	Evaluation of Linear Trend Tests Using Resampling Techniques. Communications in Statistics Part B: Simulation and Computation, 2008, 37, 907-923.	0.6	6

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73	Local prediction of turning points of oscillating time series. <i>Physical Review E</i> , 2008, 78, 036206.	0.8	2
74	Statistical Analysis for Long Term Correlations in the Stress Time Series of Jerky Flow. <i>Journal of the Mechanical Behavior of Materials</i> , 2004, 15, 135-148.	0.7	4
75	Statistical analysis of gene and intergenic DNA sequences. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 342, 623-638.	1.2	8
76	Statistical analysis of the extreme values of stress time series from the Portevinâ€œLe ChÃ¢telier effect. <i>Physical Review E</i> , 2004, 70, 036110.	0.8	19
77	Statically transformed autoregressive process and surrogate data test for nonlinearity. <i>Physical Review E</i> , 2002, 66, 025201.	0.8	34
78	Surrogate Data Test on Time Series. <i>Studies in Computational Finance</i> , 2002, , 267-282.	0.1	27
79	State Space Local Linear Prediction. <i>Studies in Computational Finance</i> , 2002, , 95-113.	0.1	2
80	ON THE RELIABILITY OF THE SURROGATE DATA TEST FOR NONLINEARITY IN THE ANALYSIS OF NOISY TIME SERIES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2001, 11, 1881-1896.	0.7	40
81	Surrogate data test for nonlinearity including nonmonotonic transforms. <i>Physical Review E</i> , 2000, 62, R25-R28.	0.8	52
82	LINEAR AND NONLINEAR ANALYSIS OF EEG FOR THE PREDICTION OF EPILEPTIC SEIZURES. , 2000, , .		7
83	Nonlinear analysis of magnetospheric data Part I. Geometric characteristics of the AE index time series and comparison with nonlinear surrogate data. <i>Nonlinear Processes in Geophysics</i> , 1999, 6, 51-65.	0.6	32
84	Nonlinear analysis of magnetospheric data Part II. Dynamical characteristics of the AE index time series and comparison with nonlinear surrogate data. <i>Nonlinear Processes in Geophysics</i> , 1999, 6, 79-98.	0.6	18
85	Test your surrogate data before you test for nonlinearity. <i>Physical Review E</i> , 1999, 60, 2808-2816.	0.8	108
86	Regularized local linear prediction of chaotic time series. <i>Physica D: Nonlinear Phenomena</i> , 1998, 112, 344-360.	1.3	86
87	Correction of the Correlation Dimension for Noisy Time Series. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1997, 07, 1283-1294.	0.7	14
88	Assessing different norms in nonlinear analysis of noisy time series. <i>Physica D: Nonlinear Phenomena</i> , 1997, 105, 62-78.	1.3	11
89	Procedure for Estimating the Correlation Dimension of Optokinetic Nystagmus Signals. <i>Journal of Biomedical Informatics</i> , 1997, 30, 95-116.	0.7	15
90	State space reconstruction parameters in the analysis of chaotic time series â€” the role of the time window length. <i>Physica D: Nonlinear Phenomena</i> , 1996, 95, 13-28.	1.3	259

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91	Estimation model for kinematic calibration of manipulators with a parallel structure. Journal of Field Robotics, 1994, 11, 399-410.	0.7	2
92	Chaotic time series. Part I. Estimation of some invariant properties in state-space. Modeling, Identification and Control, 1994, 15, 205-224.	0.6	45
93	Chaotic time series. Part II. System Identification and Prediction. Modeling, Identification and Control, 1994, 15, 225-245.	0.6	35