Alvaro Corral

List of Publications by Year in descending order

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Διναρο Corpai

#	Article	IF	CITATIONS
1	Lognormals, power laws and double power laws in the distribution of frequencies of harmonic codewords from classical music. Scientific Reports, 2022, 12, 2615.	3.3	7
2	Finite-time scaling for epidemic processes with power-law superspreading events. Physical Review E, 2022, 105, .	2.1	3
3	Tail of the distribution of fatalities in epidemics. Physical Review E, 2021, 103, 022315.	2.1	7
4	Heaps' law and vocabulary richness in the history of classical music harmony. EPJ Data Science, 2021, 10, .	2.8	2
5	Maximum Likelihood Estimation of Power-Law Exponents for Testing Universality in Complex Systems. SEMA SIMAI Springer Series, 2021, , 65-89.	0.7	0
6	Distinct flavors of Zipf's law and its maximum likelihood fitting: Rank-size and size-distribution representations. Physical Review E, 2020, 102, 052113.	2.1	17
7	No Significant Effect of Coulomb Stress on the Gutenberg-Richter Law after the Landers Earthquake. Scientific Reports, 2020, 10, 2901.	3.3	4
8	From Boltzmann to Zipf through Shannon and Jaynes. Entropy, 2020, 22, 179.	2.2	5
9	The Brevity Law as a Scaling Law, and a Possible Origin of Zipf's Law for Word Frequencies. Entropy, 2020, 22, 224.	2.2	17
10	Truncated lognormal distributions and scaling in the size of naturally defined population clusters. Physical Review E, 2020, 101, 042312.	2.1	13
11	Power Law Size Distributions in Geoscience Revisited. Earth and Space Science, 2019, 6, 673-697.	2.6	74
12	Probability estimation of a Carrington-like geomagnetic storm. Scientific Reports, 2019, 9, 2393.	3.3	17
13	Time window to constrain the corner value of the global seismic-moment distribution. PLoS ONE, 2019, 14, e0220237.	2.5	1
14	Universality of power-law exponents by means of maximum-likelihood estimation. Physical Review E, 2019, 100, 062106.	2.1	8
15	Increasing power-law range in avalanche amplitude and energy distributions. Physical Review E, 2018, 97, 022134.	2.1	11
16	Phase transition, scaling of moments, and order-parameter distributions in Brownian particles and branching processes with finite-size effects. Physical Review E, 2018, 97, 062156.	2.1	11
17	Finite-time scaling in local bifurcations. Scientific Reports, 2018, 8, 11783.	3.3	3
18	Deviation from power law of the global seismic moment distribution. Scientific Reports, 2017, 7, 40045.	3.3	18

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19	Dependence of exponents on text length versus finite-size scaling for word-frequency distributions. Physical Review E, 2017, 96, 022318.	2.1	8
20	Pressure Jumps during Drainage in Macroporous Soils. Vadose Zone Journal, 2017, 16, 1-12.	2.2	5
21	Exact Derivation of a Finite-Size Scaling Law and Corrections to Scaling in the Geometric Galton-Watson Process. PLoS ONE, 2016, 11, e0161586.	2.5	9
22	Avalanches and force drops in displacement-driven compression of porous glasses. Physical Review E, 2016, 94, 033005.	2.1	24
23	Testing universality in critical exponents: The case of rainfall. Physical Review E, 2016, 93, 042301.	2.1	5
24	Ranking and significance of variable-length similarity-based time series motifs. Expert Systems With Applications, 2016, 55, 452-460.	7.6	3
25	Large-Scale Analysis of Zipf's Law in English Texts. PLoS ONE, 2016, 11, e0147073.	2.5	74
26	Log-Log Convexity of Type-Token Growth in Zipf's Systems. Physical Review Letters, 2015, 114, 238701.	7.8	25
27	Zipf's Law for Word Frequencies: Word Forms versus Lemmas in Long Texts. PLoS ONE, 2015, 10, e0129031.	2.5	48
28	Scaling in the timing of extreme events. Chaos, Solitons and Fractals, 2015, 74, 99-112.	5.1	27
29	Lake Tutira paleoseismic record confirms random, moderate to major and/or great Hawke's Bay (New) Tj ETC	2q1_10.78 4.4	34314 rgBT 0
30	Data-driven prediction of thresholded time series of rainfall and self-organized criticality models. Physical Review E, 2015, 91, 052808.	2.1	19
31	Finite-size scaling of survival probability in branching processes. Physical Review E, 2015, 91, 042122.	2.1	12
32	Scale invariant events and dry spells for medium-resolution local rain data. Nonlinear Processes in Geophysics, 2014, 21, 555-567.	1.3	24
33	Testing Universality and Goodness-of-Fit Test of Power-Law Distributions. Trends in Mathematics, 2014, , 13-18.	0.1	2
34	Stability of Strength and Weight Distributions for Time-Evolving Word Co-occurrence Networks. Trends in Mathematics, 2014, , 19-21.	0.1	0
35	Fitting and goodness-of-fit test of non-truncated and truncated power-law distributions. Acta Geophysica, 2013, 61, 1351-1394.	2.0	140
36	Statistical Similarity between the Compression of a Porous Material and Earthquakes. Physical Review Letters, 2013, 110, 088702.	7.8	213

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37	A scaling law beyond Zipf's law and its relation to Heaps' law. New Journal of Physics, 2013, 15, 093033.	2.9	46
38	Addendum: Universality of rain event size distributions. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P06019.	2.3	1
39	Power-law distribution in encoded MFCC frames of speech, music, and environmental sound signals. , 2012, , .		2
40	Scaling behavior of the earthquake intertime distribution: Influence of large shocks and time scales in the Omori law. Physical Review E, 2012, 86, 066119.	2.1	18
41	Measuring the Evolution of Contemporary Western Popular Music. Scientific Reports, 2012, 2, 521.	3.3	111
42	Variability of North Atlantic Hurricanes: Seasonal Versus Individual-Event Features. Geophysical Monograph Series, 2012, , 111-125.	0.1	3
43	Zipf's Law in Short-Time Timbral Codings of Speech, Music, and Environmental Sound Signals. PLoS ONE, 2012, 7, e33993.	2.5	15
44	Noncharacteristic half-lives in radioactive decay. Physical Review E, 2011, 83, 066103.	2.1	22
45	Universality of rain event size distributions. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P11030.	2.3	69
46	Scaling of tropical-cyclone dissipation. Nature Physics, 2010, 6, 693-696.	16.7	40
47	Tropical Cyclones as a Critical Phenomenon. , 2010, , 81-99.		6
48	Point-occurrence self-similarity in crackling-noise systems and in other complex systems. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P01022.	2.3	14
49	STATISTICAL TESTS FOR SCALING IN THE INTER-EVENT TIMES OF EARTHQUAKES IN CALIFORNIA. International Journal of Modern Physics B, 2009, 23, 5570-5582.	2.0	12
50	Scaling and correlations in the dynamics of forest-fire occurrence. Physical Review E, 2008, 77, 016101.	2.1	41
51	Structure of earthquake occurrence in space, time and magnitude. Terra Nova, 2007, 19, 337-343.	2.1	4
52	Comment on "Earthquakes Descaled: On Waiting Time Distributions and Scaling Laws― Physical Review Letters, 2006, 96, 109801; author reply 109802.	7.8	37
53	Dependence of earthquake recurrence times and independence of magnitudes on seismicity history. Tectonophysics, 2006, 424, 177-193.	2.2	78
54	Statistical Features of Earthquake Temporal Occurrence. Lecture Notes in Physics, 2006, , 191-221.	0.7	30

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55	Universal Earthquake-Occurrence Jumps, Correlations with Time, and Anomalous Diffusion. Physical Review Letters, 2006, 97, 178501.	7.8	84
56	Mixing of rescaled data and Bayesian inference for earthquake recurrence times. Nonlinear Processes in Geophysics, 2005, 12, 89-100.	1.3	33
5 7	Comment on "Do Earthquakes Exhibit Self-Organized Criticality?― Physical Review Letters, 2005, 95, 159801; discussion 159802.	7.8	25
58	Time-decreasing hazard and increasing time until the next earthquake. Physical Review E, 2005, 71, 017101.	2.1	52
59	Renormalization-Group Transformations and Correlations of Seismicity. Physical Review Letters, 2005, 95, 028501.	7.8	65
60	Calculation of the transition matrix and of the occupation probabilities for the states of the Oslo sandpile model. Physical Review E, 2004, 69, 026107.	2.1	9
61	Universal local versus unified global scaling laws in the statistics of seismicity. Physica A: Statistical Mechanics and Its Applications, 2004, 340, 590-597.	2.6	91
62	Long-Term Clustering, Scaling, and Universality in the Temporal Occurrence of Earthquakes. Physical Review Letters, 2004, 92, 108501.	7.8	488
63	Local distributions and rate fluctuations in a unified scaling law for earthquakes. Physical Review E, 2003, 68, 035102.	2.1	181
64	Anomalous transport in conical granular piles. Physical Review E, 2002, 66, 031305.	2.1	4
65	Self-Organized Networks of Competing Boolean Agents. Physical Review Letters, 2000, 84, 3185-3188.	7.8	108
66	Avalanche Merging and Continuous Flow in a Sandpile Model. Physical Review Letters, 1999, 83, 572-575.	7.8	40
67	Symmetries and fixed point stability of stochastic differential equations modeling self-organized criticality. Physical Review E, 1997, 55, 2434-2445.	2.1	21
68	Self-Organized Criticality Induced by Diversity. Physical Review Letters, 1997, 78, 1492-1495.	7.8	27
69	Long-Tailed Trapping Times and Lévy Flights in a Self-Organized Critical Granular System. Physical Review Letters, 1997, 78, 4950-4953.	7.8	56
70	Stability of spatio-temporal structures in a lattice model of pulse-coupled oscillators. Physica D: Nonlinear Phenomena, 1997, 103, 419-429.	2.8	7
71	ON SELF-ORGANIZED CRITICALITY AND SYNCHRONIZATION IN LATTICE MODELS OF COUPLED DYNAMICAL SYSTEMS. International Journal of Modern Physics B, 1996, 10, 1111-1151.	2.0	52
72	Tracer Dispersion in a Self-Organized Critical System. Physical Review Letters, 1996, 77, 107-110.	7.8	178

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73	Synchronization in a Lattice Model of Pulse-Coupled Oscillators. Physical Review Letters, 1995, 75, 3697-3700.	7.8	29
74	Self-Organized Criticality and Synchronization in a Lattice Model of Integrate-and-Fire Oscillators. Physical Review Letters, 1995, 74, 118-121.	7.8	105