Fernando E Rosas

List of Publications by Year
in descending order

55 papers	1,385 citations	471371 17 h-index	477173 29 g-index
80 all docs	80 docs citations	80 times ranked	995 citing authors

#	Article	IF	Citations
1	A Complex Systems Perspective on Neuroimaging Studies of Behavior and Its Disorders. Neuroscientist, 2022, 28, 382-399.	2.6	39
2	Dynamic sensor activation and decision-level fusion in wireless acoustic sensor networks for classification of domestic activities. Information Fusion, 2022, 77, 196-210.	11.7	1
3	Psychedelic experience dose-dependently modulated by cannabis: results of a prospective online survey. Psychopharmacology, 2022, 239, 1425-1440.	1.5	13
4	Integrated information as a common signature of dynamical and information-processing complexity. Chaos, 2022, 32, 013115.	1.0	25
5	Quantifying high-order interdependencies on individual patterns via the local O-information: Theory and applications to music analysis. Physical Review Research, 2022, 4, .	1.3	5
6	Disentangling high-order mechanisms and high-order behaviours in complex systems. Nature Physics, 2022, 18, 476-477.	6.5	23
7	Whole-brain modelling identifies distinct but convergent paths to unconsciousness in anaesthesia and disorders of consciousness. Communications Biology, 2022, 5, 384.	2.0	23
8	Psychedelic resting-state neuroimaging: A review and perspective on balancing replication and novel analyses. Neuroscience and Biobehavioral Reviews, 2022, 138, 104689.	2.9	45
9	A synergistic core for human brain evolution and cognition. Nature Neuroscience, 2022, 25, 771-782.	7.1	80
10	A hypergraph-based framework for personalized recommendations via user preference and dynamics clustering. Expert Systems With Applications, 2022, 204, 117552.	4.4	6
11	Greater than the parts: a review of the information decomposition approach to causal emergence. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, .	1.6	17
12	The strength of weak integrated information theory. Trends in Cognitive Sciences, 2022, 26, 646-655.	4.0	17
13	May the 4C's be with you: an overview of complexity-inspired frameworks for analysing resting-state neuroimaging data. Journal of the Royal Society Interface, 2022, 19, .	1.5	9
14	Metastability, fractal scaling, and synergistic information processing: What phase relationships reveal about intrinsic brain activity. NeuroImage, 2022, 259, 119433.	2.1	14
15	Self-blinding citizen science to explore psychedelic microdosing. ELife, 2021, 10, .	2.8	94
16	High-Order Interdependencies in the Aging Brain. Brain Connectivity, 2021, 11, 734-744.	0.8	29
17	Hyperharmonic analysis for the study of high-order information-theoretic signals. Journal of Physics Complexity, 2021, 2, 035009.	0.9	6
18	Generalization of the maximum entropy principle for curved statistical manifolds. Physical Review Research, 2021, 3, .	1.3	6

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19	Decomposing Spectral and Phasic Differences in Nonlinear Features between Datasets. Physical Review Letters, 2021, 127, 124101.	2.9	13
20	What it is like to be a bit: an integrated information decomposition account of emergent mental phenomena. Neuroscience of Consciousness, 2021, 2021, niab027.	1.4	13
21	Recommendation Algorithm in Double-Layer Network Based on Vector Dynamic Evolution Clustering and Attention Mechanism. Complexity, 2020, 2020, 1-19.	0.9	3
22	Whole-Brain Models to Explore Altered States of Consciousness from the Bottom Up. Brain Sciences, 2020, 10, 626.	1.1	40
23	Data Disclosure Under Perfect Sample Privacy. IEEE Transactions on Information Forensics and Security, 2020, 15, 2012-2025.	4.5	13
24	An operational information decomposition via synergistic disclosure. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 485001.	0.7	21
25	Reconciling emergences: An information-theoretic approach to identify causal emergence in multivariate data. PLoS Computational Biology, 2020, 16, e1008289.	1.5	52
26	Title is missing!. , 2020, 16, e1008289.		0
27	Title is missing!. , 2020, 16, e1008289.		0
28	Title is missing!. , 2020, 16, e1008289.		0
29	Title is missing!. , 2020, 16, e1008289.		0
30	Synchronization in time-varying random networks with vanishing connectivity. Scientific Reports, 2019, 9, 10207.	1.6	14
31	Quantifying high-order interdependencies via multivariate extensions of the mutual information. Physical Review E, 2019, 100, 032305.	0.8	86
32	An Introduction to the Non-Equilibrium Steady States of Maximum Entropy Spike Trains. Entropy, 2019, 21, 884.	1.1	8
33	Cellular Connectivity for UAVs: Network Modeling, Performance Analysis, and Design Guidelines. IEEE Transactions on Wireless Communications, 2019, 18, 3366-3381.	6.1	132
34	A Comparison of the Maximum Entropy Principle Across Biological Spatial Scales. Entropy, 2019, 21, 1009.	1.1	13
35	Social Learning Against Data Falsification inÂSensor Networks. Studies in Computational Intelligence, 2018, , 704-716.	0.7	2
36	Latent Feature Disclosure under Perfect Sample Privacy. , 2018, , .		8

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37	Social learning for resilient data fusion against data falsification attacks. Computational Social Networks, 2018, 5, 10.	2.1	3
38	An Information-Theoretic Approach to Self-Organisation: Emergence of Complex Interdependencies in Coupled Dynamical Systems. Entropy, 2018, 20, 793.	1.1	33
39	The Improvisational State of Mind: A Multidisciplinary Study of an Improvisatory Approach to Classical Music Repertoire Performance. Frontiers in Psychology, 2018, 9, 1341.	1.1	40
40	A Multiple-Relay Communication Protocol for Achieving Fairness in Dense Networks. IEEE Access, 2018, 6, 6740-6754.	2.6	1
41	Large Deviations Properties of Maximum Entropy Markov Chains from Spike Trains. Entropy, 2018, 20, 573.	1.1	5
42	Saving energy in WSNs for acoustic surveillance applications while maintaining QoS. , 2017, , .		12
43	Adaptive in-band full-duplex collision detection for balancing sensing and collision costs. , 2017, , .		0
44	A Technological Perspective on Information Cascades via Social Learning. IEEE Access, 2017, 5, 22605-22633.	2.6	15
45	Understanding Interdependency Through Complex Information Sharing. Entropy, 2016, 18, 38.	1.1	30
46	Optimal UAV Positioning for Terrestrial-Aerial Communication in Presence of Fading. , 2016, , .		60
47	Joint Sum-Rate and Power Gain Analysis of an Aerial Base Station. , 2016, , .		52
48	Optimizing the Code Rate of Energy-Constrained Wireless Communications With HARQ. IEEE Transactions on Wireless Communications, 2016, 15, 191-205.	6.1	26
49	Optimizing the code rate for achieving energy-efficient wireless communications. , 2014, , .		12
50	Downlink performance limitations of cellular systems with coordinated base stations and mismatched precoder. IET Communications, 2014, 8, 77-82.	1.5	1
51	Nakagamiâ€‹<i>m</i> approximations for multipleâ€‍input multipleâ€‍output singular value decomposition transmissions. IET Communications, 2013, 7, 554-561.	1.5	10
52	Energy-efficient MIMO SVD communications. , 2012, , .		5
53	Nakagami-m approximations for MIMO SVD transmissions. , 2012, , .		1
54	Modulation Optimization for Achieving Energy Efficient Communications over Fading Channels. , 2012, , .		3

#	Article	IF	Citations
55	Modulation and SNR Optimization for Achieving Energy-Efficient Communications over Short-Range Fading Channels. IEEE Transactions on Wireless Communications, 2012, 11, 4286-4295.	6.1	41