

Fernando E Rosas

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Cellular Connectivity for UAVs: Network Modeling, Performance Analysis, and Design Guidelines. IEEE Transactions on Wireless Communications, 2019, 18, 3366-3381. | 6.1 | 132 |
| 2 | Self-blinding citizen science to explore psychedelic microdosing. ELife, 2021, 10, . | 2.8 | 94 |
| 3 | Quantifying high-order interdependencies via multivariate extensions of the mutual information. Physical Review E, 2019, 100, 032305. | 0.8 | 86 |
| 4 | A synergistic core for human brain evolution and cognition. Nature Neuroscience, 2022, 25, 771-782. | 7.1 | 80 |
| 5 | Optimal UAV Positioning for Terrestrial-Aerial Communication in Presence of Fading. , 2016, , . | | 60 |
| 6 | Joint Sum-Rate and Power Gain Analysis of an Aerial Base Station. , 2016, , . | | 52 |
| 7 | Reconciling emergences: An information-theoretic approach to identify causal emergence in multivariate data. PLoS Computational Biology, 2020, 16, e1008289. | 1.5 | 52 |
| 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 | 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 |
| 10 | 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 |
| 11 | Whole-Brain Models to Explore Altered States of Consciousness from the Bottom Up. Brain Sciences, 2020, 10, 626. | 1.1 | 40 |
| 12 | A Complex Systems Perspective on Neuroimaging Studies of Behavior and Its Disorders. Neuroscientist, 2022, 28, 382-399. | 2.6 | 39 |
| 13 | An Information-Theoretic Approach to Self-Organisation: Emergence of Complex Interdependencies in Coupled Dynamical Systems. Entropy, 2018, 20, 793. | 1.1 | 33 |
| 14 | Understanding Interdependency Through Complex Information Sharing. Entropy, 2016, 18, 38. | 1.1 | 30 |
| 15 | High-Order Interdependencies in the Aging Brain. Brain Connectivity, 2021, 11, 734-744. | 0.8 | 29 |
| 16 | Optimizing the Code Rate of Energy-Constrained Wireless Communications With HARQ. IEEE Transactions on Wireless Communications, 2016, 15, 191-205. | 6.1 | 26 |
| 17 | Integrated information as a common signature of dynamical and information-processing complexity. Chaos, 2022, 32, 013115. | 1.0 | 25 |
| 18 | Disentangling high-order mechanisms and high-order behaviours in complex systems. Nature Physics, 2022, 18, 476-477. | 6.5 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Whole-brain modelling identifies distinct but convergent paths to unconsciousness in anaesthesia and disorders of consciousness. <i>Communications Biology</i> , 2022, 5, 384. | 2.0 | 23 |
| 20 | An operational information decomposition via synergistic disclosure. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 485001. | 0.7 | 21 |
| 21 | Greater than the parts: a review of the information decomposition approach to causal emergence. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, . | 1.6 | 17 |
| 22 | The strength of weak integrated information theory. <i>Trends in Cognitive Sciences</i> , 2022, 26, 646-655. | 4.0 | 17 |
| 23 | A Technological Perspective on Information Cascades via Social Learning. <i>IEEE Access</i> , 2017, 5, 22605-22633. | 2.6 | 15 |
| 24 | Synchronization in time-varying random networks with vanishing connectivity. <i>Scientific Reports</i> , 2019, 9, 10207. | 1.6 | 14 |
| 25 | Metastability, fractal scaling, and synergistic information processing: What phase relationships reveal about intrinsic brain activity. <i>NeuroImage</i> , 2022, 259, 119433. | 2.1 | 14 |
| 26 | A Comparison of the Maximum Entropy Principle Across Biological Spatial Scales. <i>Entropy</i> , 2019, 21, 1009. | 1.1 | 13 |
| 27 | Data Disclosure Under Perfect Sample Privacy. <i>IEEE Transactions on Information Forensics and Security</i> , 2020, 15, 2012-2025. | 4.5 | 13 |
| 28 | Decomposing Spectral and Phasic Differences in Nonlinear Features between Datasets. <i>Physical Review Letters</i> , 2021, 127, 124101. | 2.9 | 13 |
| 29 | Psychedelic experience dose-dependently modulated by cannabis: results of a prospective online survey. <i>Psychopharmacology</i> , 2022, 239, 1425-1440. | 1.5 | 13 |
| 30 | What it is like to be a bit: an integrated information decomposition account of emergent mental phenomena. <i>Neuroscience of Consciousness</i> , 2021, 2021, niab027. | 1.4 | 13 |
| 31 | Optimizing the code rate for achieving energy-efficient wireless communications. , 2014, , . | | 12 |
| 32 | Saving energy in WSNs for acoustic surveillance applications while maintaining QoS. , 2017, , . | | 12 |
| 33 | Nakagami- m approximations for multiple-input multiple-output singular value decomposition transmissions. <i>IET Communications</i> , 2013, 7, 554-561. | 1.5 | 10 |
| 34 | May the 4C's be with you: an overview of complexity-inspired frameworks for analysing resting-state neuroimaging data. <i>Journal of the Royal Society Interface</i> , 2022, 19, . | 1.5 | 9 |
| 35 | Latent Feature Disclosure under Perfect Sample Privacy. , 2018, , . | | 8 |
| 36 | An Introduction to the Non-Equilibrium Steady States of Maximum Entropy Spike Trains. <i>Entropy</i> , 2019, 21, 884. | 1.1 | 8 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Hyperharmonic analysis for the study of high-order information-theoretic signals. Journal of Physics Complexity, 2021, 2, 035009. | 0.9 | 6 |
| 38 | Generalization of the maximum entropy principle for curved statistical manifolds. Physical Review Research, 2021, 3, . | 1.3 | 6 |
| 39 | A hypergraph-based framework for personalized recommendations via user preference and dynamics clustering. Expert Systems With Applications, 2022, 204, 117552. | 4.4 | 6 |
| 40 | Energy-efficient MIMO SVD communications. , 2012, , . | | 5 |
| 41 | Large Deviations Properties of Maximum Entropy Markov Chains from Spike Trains. Entropy, 2018, 20, 573. | 1.1 | 5 |
| 42 | 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 |
| 43 | Modulation Optimization for Achieving Energy Efficient Communications over Fading Channels. , 2012, , . | | 3 |
| 44 | Social learning for resilient data fusion against data falsification attacks. Computational Social Networks, 2018, 5, 10. | 2.1 | 3 |
| 45 | Recommendation Algorithm in Double-Layer Network Based on Vector Dynamic Evolution Clustering and Attention Mechanism. Complexity, 2020, 2020, 1-19. | 0.9 | 3 |
| 46 | Social Learning Against Data Falsification in Sensor Networks. Studies in Computational Intelligence, 2018, , 704-716. | 0.7 | 2 |
| 47 | Nakagami-m approximations for MIMO SVD transmissions. , 2012, , . | | 1 |
| 48 | Downlink performance limitations of cellular systems with coordinated base stations and mismatched precoder. IET Communications, 2014, 8, 77-82. | 1.5 | 1 |
| 49 | A Multiple-Relay Communication Protocol for Achieving Fairness in Dense Networks. IEEE Access, 2018, 6, 6740-6754. | 2.6 | 1 |
| 50 | 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 |
| 51 | Adaptive in-band full-duplex collision detection for balancing sensing and collision costs. , 2017, , . | | 0 |
| 52 | Title is missing!. , 2020, 16, e1008289. | | 0 |
| 53 | Title is missing!. , 2020, 16, e1008289. | | 0 |
| 54 | Title is missing!. , 2020, 16, e1008289. | | 0 |

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|----|------------------------------------------|----|-----------|
| 55 | Title is missing!. , 2020, 16, e1008289. | | 0 |