Massimiliano Zanin

List of Publications by Year
in descending order

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120	6,352	201385	69108
papers	citations	27 h-index	77 g-index

127	127	127	5298
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The structure and dynamics of multilayer networks. Physics Reports, 2014, 544, 1-122.	10.3	2,469
2	Permutation Entropy and Its Main Biomedical and Econophysics Applications: A Review. Entropy, 2012, 14, 1553-1577.	1.1	505
3	Emergence of network features from multiplexity. Scientific Reports, 2013, 3, 1344.	1.6	396
4	Modeling the multi-layer nature of the European Air Transport Network: Resilience and passengers re-scheduling under random failures. European Physical Journal: Special Topics, 2013, 215, 23-33.	1.2	226
5	Modelling the air transport with complex networks: A short review. European Physical Journal: Special Topics, 2013, 215, 5-21.	1.2	205
6	Forbidden patterns, permutation entropy and stock market inefficiency. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 2854-2864.	1.2	197
7	Complexity-entropy causality plane: A useful approach to quantify the stock market inefficiency. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 1891-1901.	1.2	175
8	Image encryption with chaotically coupled chaotic maps. Physica D: Nonlinear Phenomena, 2008, 237, 2638-2648.	1.3	145
9	Combining complex networks and data mining: Why and how. Physics Reports, 2016, 635, 1-44.	10.3	139
10	Explosive transitions to synchronization in networks of phase oscillators. Scientific Reports, 2013, 3, 1281.	1.6	95
11	A comparative analysis of approaches to network-dismantling. Scientific Reports, 2018, 8, 13513.	1.6	90
12	Applying complexity science to air traffic management. Journal of Air Transport Management, 2015, 42, 149-158.	2.4	87
13	Optimizing Functional Network Representation of Multivariate Time Series. Scientific Reports, 2012, 2, 630.	1.6	79
14	Commodity predictability analysis with a permutation information theory approach. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 876-890.	1.2	71
15	Forbidden patterns in financial time series. Chaos, 2008, 18, 013119.	1.0	65
16	Functional brain networks: great expectations, hard times and the big leap forward. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130525.	1.8	65
17	Can we neglect the multi-layer structure of functional networks?. Physica A: Statistical Mechanics and Its Applications, 2015, 430, 184-192.	1.2	53
18	Beware of the Small-World Neuroscientist!. Frontiers in Human Neuroscience, 2016, 10, 96.	1.0	53

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19	Jamming transition in air transportation networks. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 3948-3954.	1.2	51
20	Network analysis of Chinese air transport delay propagation. Chinese Journal of Aeronautics, 2017, 30, 491-499.	2.8	45
21	Studying the Topology of Transportation Systems through Complex Networks: Handle with Care. Journal of Advanced Transportation, 2018, 2018, 1-17.	0.9	44
22	Targeting the dynamics of complex networks. Scientific Reports, 2012, 2, 396.	1.6	38
23	Credit Card Fraud Detection through Parenclitic Network Analysis. Complexity, 2018, 2018, 1-9.	0.9	38
24	Gray code permutation algorithm for high-dimensional data encryption. Information Sciences, 2014, 270, 288-297.	4.0	34
25	Ordinal patterns-based methodologies for distinguishing chaos from noise in discrete time series. Communications Physics, 2021, 4, .	2.0	34
26	Principles and open questions in functional brain network reconstruction. Human Brain Mapping, 2021, 42, 3680-3711.	1.9	33
27	Assessing Time Series Reversibility through Permutation Patterns. Entropy, 2018, 20, 665.	1.1	33
28	Topological Measure Locating the Effective Crossover between Segregation and Integration in a Modular Network. Physical Review Letters, 2012, 108, 228701.	2.9	29
29	DISNET: a framework for extracting phenotypic disease information from public sources. PeerJ, 2020, 8, e8580.	0.9	29
30	Generation and recovery of airborne delays in air transport. Transportation Research Part C: Emerging Technologies, 2016, 69, 436-450.	3.9	28
31	Disease networks and their contribution to disease understanding: A review of their evolution, techniques and data sources. Journal of Biomedical Informatics, 2019, 94, 103206.	2.5	26
32	Network analysis reveals patterns behind air safety events. Physica A: Statistical Mechanics and Its Applications, 2014, 401, 201-206.	1.2	25
33	QRE: Quick Robustness Estimation for large complex networks. Future Generation Computer Systems, 2018, 83, 413-424.	4.9	25
34	Time Irreversibility of Resting-State Activity in the Healthy Brain and Pathology. Frontiers in Physiology, 2019, 10, 1619.	1.3	25
35	Reconstructing functional brain networks: have we got the basics right?. Frontiers in Human Neuroscience, 2014, 8, 107.	1.0	22
36	Deep learning in systems medicine. Briefings in Bioinformatics, 2021, 22, 1543-1559.	3.2	22

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37	On the multi-dimensionality and sampling of air transport networks. Transportation Research, Part E: Logistics and Transportation Review, 2016, 94, 95-109.	3.7	21
38	Indoor Temperature Prediction in an IoT Scenario. Sensors, 2018, 18, 3610.	2.1	21
39	Characterizing Normal and Pathological Gait through Permutation Entropy. Entropy, 2018, 20, 77.	1.1	21
40	Information content: Assessing meso-scale structures in complex networks. Europhysics Letters, 2014, 106, 30001.	0.7	20
41	Environmental benefits of airâ€“rail intermodality: The example of Madrid Barajas. Transportation Research, Part E: Logistics and Transportation Review, 2012, 48, 1056-1063.	3.7	19
42	Parenclitic networks: uncovering new functions in biological data. Scientific Reports, 2014, 4, 5112.	1.6	19
43	Contrasting chaotic with stochastic dynamics via ordinal transition networks. Chaos, 2020, 30, 063101.	1.0	19
44	From random failures to targeted attacks in network dismantling. Reliability Engineering and System Safety, 2022, 218, 108146.	5.1	19
45	Algorithmic Approaches for Assessing Irreversibility in Time Series: Review and Comparison. Entropy, 2021, 23, 1474.	1.1	19
46	Towards superior air transport performance metrics â€“ imperatives and methods. Journal of Aerospace Operations, 2013, 2, 3-19.	0.1	18
47	20 years of ordinal patterns: Perspectives and challenges. Europhysics Letters, 0, , .	0.7	18
48	Profiling Lung Cancer Patients Using Electronic Health Records. Journal of Medical Systems, 2018, 42, 126.	2.2	17
49	ATM performance measurement in Europe, the US and China. Chinese Journal of Aeronautics, 2017, 30, 479-490.	2.8	16
50	Dynamics in scheduled networks. Chaos, 2009, 19, 023111.	1.0	15
51	Computation Emerges from Adaptive Synchronization of Networking Neurons. PLoS ONE, 2011, 6, e26467.	1.1	15
52	Permutation Entropy and Irreversibility in Gait Kinematic Time Series from Patients with Mild Cognitive Decline and Early Alzheimerâ€™s Dementia. Entropy, 2019, 21, 868.	1.1	15
53	Complex networks analysis of obstructive nephropathy data. Chaos, 2011, 21, 033103.	1.0	14
54	Towards a secure trading of aviation CO2 allowance. Journal of Air Transport Management, 2016, 56, 3-11.	2.4	14

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55	Reconstructing the patientâ€™s natural history from electronic health records. Artificial Intelligence in Medicine, 2020, 105, 101860.	3.8	14
56	Detecting switching and intermittent causalities in time series. Chaos, 2017, 27, 047403.	1.0	13
57	Worldwide air transportation networks: a matter of scale and fractality?. Transportmetrica A: Transport Science, 2017, 13, 607-630.	1.3	12
58	On the use of random graphs as null model of large connected networks. Chaos, Solitons and Fractals, 2019, 119, 318-325.	2.5	12
59	Characterization and Prediction of Air Transport Delays in China. Applied Sciences (Switzerland), 2020, 10, 6165.	1.3	12
60	Mechanistic Modeling and Multiscale Applications for Precision Medicine: Theory and Practice. Network and Systems Medicine, 2020, 3, 36-56.	2.7	11
61	Disorder and decision cost in spatial networks. Chaos, 2008, 18, 023103.	1.0	10
62	Characterization and exploitation of community structure in cover song networks. Pattern Recognition Letters, 2012, 33, 1032-1041.	2.6	10
63	Understanding diseases as increased heterogeneity: a complex network computational framework. Journal of the Royal Society Interface, 2018, 15, 20180405.	1.5	10
64	Recognition of Time Expressions in Spanish Electronic Health Records. , 2019, , .		10
65	Fostering interpretability of data mining models through data perturbation. Expert Systems With Applications, 2019, 137, 191-201.	4.4	10
66	Feature Selection in the Reconstruction of Complex Network Representations of Spectral Data. PLoS ONE, 2013, 8, e72045.	1.1	9
67	Beyond Linear Delay Multipliers in Air Transport. Journal of Advanced Transportation, 2017, 2017, 1-11.	0.9	9
68	Assessing functional propagation patterns in COVID-19. Chaos, Solitons and Fractals, 2020, 138, 109993.	2.5	9
69	An Early Stage Researcher's Primer on Systems Medicine Terminology. Network and Systems Medicine, 2021, 4, 2-50.	2.7	9
70	Knowledge Discovery in Spectral Data by Means of Complex Networks. Metabolites, 2013, 3, 155-167.	1.3	8
71	The topology of card transaction money flows. Physica A: Statistical Mechanics and Its Applications, 2016, 462, 134-140.	1.2	8
72	Topological structures are consistently overestimated in functional complex networks. Scientific Reports, 2018, 8, 11980.	1.6	8

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73	Simplifying functional network representation and interpretation through causality clustering. Scientific Reports, 2021, 11, 15378.	1.6	8
74	Evaluating Wikipedia as a Source of Information for Disease Understanding. , 2018, , .		7
75	Mitochondria interaction networks show altered topological patterns in Parkinsonâ€™s disease. Npj Systems Biology and Applications, 2020, 6, 38.	1.4	7
76	A minimal model of hospital patientsâ€™ dynamics in COVID-19. Chaos, Solitons and Fractals, 2020, 140, 110157.	2.5	7
77	Trends in Incidence and Transmission Patterns of COVID-19 in Valencia, Spain. JAMA Network Open, 2021, 4, e2113818.	2.8	7
78	Preprocessing and analyzing genetic data with complex networks: An application to Obstructive Nephropathy. Networks and Heterogeneous Media, 2012, 7, 473-481.	0.5	7
79	Assessing time series irreversibility through micro-scale trends. Chaos, 2021, 31, 103118.	1.0	7
80	NETWORKS OF SPRINGS: A PRACTICAL APPROACH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 937-942.	0.7	6
81	Computation as an emergent feature of adaptive synchronization. Physical Review E, 2011, 84, 060102.	0.8	6
82	From the Difference of Structures to the Structure of the Difference. Complexity, 2018, 2018, 1-12.	0.9	5
83	Characterising obstructive sleep apnea patients through complex networks. Chaos, Solitons and Fractals, 2019, 119, 196-202.	2.5	5
84	Travel restrictions during pandemics: A useful strategy?. Chaos, 2020, 30, 111103.	1.0	5
85	Statistical and Machine Learning Link Selection Methods for Brain Functional Networks: Review and Comparison. Brain Sciences, 2021, 11, 735.	1.1	5
86	DisMaNET: A network-based tool to cross map disease vocabularies. Computer Methods and Programs in Biomedicine, 2021, 207, 106233.	2.6	5
87	Anomalous consistency in Mild Cognitive Impairment: A complex networks approach. Chaos, Solitons and Fractals, 2015, 70, 144-155.	2.5	4
88	From phenotype to genotype in complex brain networks. Scientific Reports, 2016, 6, 19790.	1.6	4
89	Normal tissue content impact on the GBM molecular classification. Briefings in Bioinformatics, 2021, 22, .	3.2	4
90	On causality of extreme events. PeerJ, 2016, 4, e2111.	0.9	4

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91	Assessing Identifiability in Airport Delay Propagation Roles Through Deep Learning Classification. IEEE Access, 2022, 10, 28520-28534.	2.6	4
92	Can Deep Learning distinguish chaos from noise? Numerical experiments and general considerations. Communications in Nonlinear Science and Numerical Simulation, 2022, 114, 106708.	1.7	4
93	Reply to: â€œComment on: â€˜Image encryption with chaotically coupled chaotic mapsâ€™ [Physica D 2010]â€: Physica D: Nonlinear Phenomena, 2010, 239, 1001.	1.3	3
94	MODELING THE EVOLUTION OF ITEM RATING NETWORKS USING TIME-DOMAIN PREFERENTIAL ATTACHMENT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250180.	0.7	3
95	Assessing Airport Landing Efficiency Through Large-Scale Flight Data Analysis. IEEE Access, 2020, 8, 170519-170528.	2.6	3
96	Assessing Granger Causality on Irregular Missing and Extreme Data. IEEE Access, 2021, 9, 75362-75374.	2.6	3
97	A Fast Transform for Brain Connectivity Difference Evaluation. Neuroinformatics, 2022, 20, 285-299.	1.5	3
98	Gait analysis under the lens of statistical physics. Computational and Structural Biotechnology Journal, 2022, 20, 3257-3267.	1.9	3
99	PREFERENTIAL ATTACHMENT, AGING AND WEIGHTS IN RECOMMENDATION SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 755-763.	0.7	2
100	Uncertainty in Functional Network Representations of Brain Activity of Alcoholic Patients. Brain Topography, 2021, 34, 6-18.	0.8	2
101	Analysis of Complex Data by Means of Complex Networks. IFIP Advances in Information and Communication Technology, 2014, , 39-46.	0.5	2
102	Using complex networks for refining survival prognosis in prostate cancer patient. F1000Research, 2016, 5, 2675.	0.8	2
103	Air delay propagation patterns in Europe from 2015 to 2018: an information processing perspective. Journal of Physics Complexity, 2022, 3, 015001.	0.9	2
104	Spatially embedded socio-technical complex networks. European Physical Journal: Special Topics, 2013, 215, 1-4.	1.2	1
105	Computing with complex-valued networks of phase oscillators. Europhysics Letters, 2013, 102, 40007.	0.7	1
106	Efficient neural codes can lead to spurious synchronization. Frontiers in Computational Neuroscience, 2013, 7, 125.	1.2	1
107	Characterizing Motif Dynamics of Electric Brain Activity Using Symbolic Analysis. Entropy, 2014, 16, 5654-5667.	1.1	1
108	Studying Attacks to Information Systems Using Functional Networks. Frontiers in ICT, 2015, 2, .	3.6	1

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109	Design and Implementation of a Secure Auction System for Air Transport Slots. , 2015, , .		1
110	A Meta-Path-Based Prediction Method for Disease Comorbidities. , 2021, , .		1
111	Probabilistic Constraint Programming for Parameters Optimisation of Generative Models. Lecture Notes in Computer Science, 2015, , 376-387.	1.0	1
112	Analyzing international events through the lens of statistical physics: The case of Ukraine. Chaos, 2022, 32, 051103.	1.0	1
113	NONLOCAL ANALYSIS OF MODULAR ROLES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250167.	0.7	0
114	The ACE Brain. Frontiers in Computational Neuroscience, 2016, 10, 122.	1.2	0
115	On the applicability of the Lead/Lag Ratio in causality assessment. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 186-196.	1.2	0
116	Developing a Data Analytics Toolbox to Support CPS-based Services. , 2020, , .		0
117	Identity Assurance through EEG Recordings. Advances in Human and Social Aspects of Technology Book Series, 2016, , 545-555.	0.3	0
118	An Analytics Toolbox for Cyber-Physical Systems Data Analysis: Requirements and Challenges. , 2020, , .		0
119	Optimal Cost-Based Strengthening of Complex Networks. IEEE Transactions on Network Science and Engineering, 2022, 9, 1117-1127.	4.1	0
120	Telling functional networks apart using ranked network features stability. Scientific Reports, 2022, 12, 2562.	1.6	0