

# Massimiliano Zanin

## List of Publications by Year in descending order

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Version: 2024-02-01

120  
papers

6,352  
citations

201385

27  
h-index

69108

77  
g-index

127  
all docs

127  
docs citations

127  
times ranked

5298  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Fast Transform for Brain Connectivity Difference Evaluation. <i>Neuroinformatics</i> , 2022, 20, 285-299.	1.5	3
2	From random failures to targeted attacks in network dismantling. <i>Reliability Engineering and System Safety</i> , 2022, 218, 108146.	5.1	19
3	Optimal Cost-Based Strengthening of Complex Networks. <i>IEEE Transactions on Network Science and Engineering</i> , 2022, 9, 1117-1127.	4.1	0
4	Assessing Identifiability in Airport Delay Propagation Roles Through Deep Learning Classification. <i>IEEE Access</i> , 2022, 10, 28520-28534.	2.6	4
5	Telling functional networks apart using ranked network features stability. <i>Scientific Reports</i> , 2022, 12, 2562.	1.6	0
6	Air delay propagation patterns in Europe from 2015 to 2018: an information processing perspective. <i>Journal of Physics Complexity</i> , 2022, 3, 015001.	0.9	2
7	Analyzing international events through the lens of statistical physics: The case of Ukraine. <i>Chaos</i> , 2022, 32, 051103.	1.0	1
8	Gait analysis under the lens of statistical physics. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 3257-3267.	1.9	3
9	Can Deep Learning distinguish chaos from noise? Numerical experiments and general considerations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 114, 106708.	1.7	4
10	Normal tissue content impact on the GBM molecular classification. <i>Briefings in Bioinformatics</i> , 2021, 22, .	3.2	4
11	Uncertainty in Functional Network Representations of Brain Activity of Alcoholic Patients. <i>Brain Topography</i> , 2021, 34, 6-18.	0.8	2
12	Deep learning in systems medicine. <i>Briefings in Bioinformatics</i> , 2021, 22, 1543-1559.	3.2	22
13	Assessing Granger Causality on Irregular Missing and Extreme Data. <i>IEEE Access</i> , 2021, 9, 75362-75374.	2.6	3
14	An Early Stage Researcher's Primer on Systems Medicine Terminology. <i>Network and Systems Medicine</i> , 2021, 4, 2-50.	2.7	9
15	Statistical and Machine Learning Link Selection Methods for Brain Functional Networks: Review and Comparison. <i>Brain Sciences</i> , 2021, 11, 735.	1.1	5
16	Principles and open questions in functional brain network reconstruction. <i>Human Brain Mapping</i> , 2021, 42, 3680-3711.	1.9	33
17	A Meta-Path-Based Prediction Method for Disease Comorbidities. , 2021, , .		1
18	Trends in Incidence and Transmission Patterns of COVID-19 in Valencia, Spain. <i>JAMA Network Open</i> , 2021, 4, e2113818.	2.8	7

#	ARTICLE	IF	CITATIONS
19	Simplifying functional network representation and interpretation through causality clustering. Scientific Reports, 2021, 11, 15378.	1.6	8
20	Ordinal patterns-based methodologies for distinguishing chaos from noise in discrete time series. Communications Physics, 2021, 4, .	2.0	34
21	DisMaNET: A network-based tool to cross map disease vocabularies. Computer Methods and Programs in Biomedicine, 2021, 207, 106233.	2.6	5
22	Assessing time series irreversibility through micro-scale trends. Chaos, 2021, 31, 103118.	1.0	7
23	Algorithmic Approaches for Assessing Irreversibility in Time Series: Review and Comparison. Entropy, 2021, 23, 1474.	1.1	19
24	Travel restrictions during pandemics: A useful strategy?. Chaos, 2020, 30, 111103.	1.0	5
25	Mitochondria interaction networks show altered topological patterns in Parkinson's disease. Npj Systems Biology and Applications, 2020, 6, 38.	1.4	7
26	A minimal model of hospital patients' dynamics in COVID-19. Chaos, Solitons and Fractals, 2020, 140, 110157.	2.5	7
27	Developing a Data Analytics Toolbox to Support CPS-based Services. , 2020, , .		0
28	Assessing Airport Landing Efficiency Through Large-Scale Flight Data Analysis. IEEE Access, 2020, 8, 170519-170528.	2.6	3
29	Characterization and Prediction of Air Transport Delays in China. Applied Sciences (Switzerland), 2020, 10, 6165.	1.3	12
30	Reconstructing the patient's natural history from electronic health records. Artificial Intelligence in Medicine, 2020, 105, 101860.	3.8	14
31	Contrasting chaotic with stochastic dynamics via ordinal transition networks. Chaos, 2020, 30, 063101.	1.0	19
32	Assessing functional propagation patterns in COVID-19. Chaos, Solitons and Fractals, 2020, 138, 109993.	2.5	9
33	Mechanistic Modeling and Multiscale Applications for Precision Medicine: Theory and Practice. Network and Systems Medicine, 2020, 3, 36-56.	2.7	11
34	DISNET: a framework for extracting phenotypic disease information from public sources. PeerJ, 2020, 8, e8580.	0.9	29
35	An Analytics Toolbox for Cyber-Physical Systems Data Analysis: Requirements and Challenges. , 2020, , .		0
36	Recognition of Time Expressions in Spanish Electronic Health Records. , 2019, , .		10

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37	Fostering interpretability of data mining models through data perturbation. Expert Systems With Applications, 2019, 137, 191-201.	4.4	10
38	Permutation Entropy and Irreversibility in Gait Kinematic Time Series from Patients with Mild Cognitive Decline and Early Alzheimer's Dementia. Entropy, 2019, 21, 868.	1.1	15
39	On the use of random graphs as null model of large connected networks. Chaos, Solitons and Fractals, 2019, 119, 318-325.	2.5	12
40	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
41	Characterising obstructive sleep apnea patients through complex networks. Chaos, Solitons and Fractals, 2019, 119, 196-202.	2.5	5
42	Time Irreversibility of Resting-State Activity in the Healthy Brain and Pathology. Frontiers in Physiology, 2019, 10, 1619.	1.3	25
43	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
44	QRE: Quick Robustness Estimation for large complex networks. Future Generation Computer Systems, 2018, 83, 413-424.	4.9	25
45	From the Difference of Structures to the Structure of the Difference. Complexity, 2018, 2018, 1-12.	0.9	5
46	Indoor Temperature Prediction in an IoT Scenario. Sensors, 2018, 18, 3610.	2.1	21
47	Topological structures are consistently overestimated in functional complex networks. Scientific Reports, 2018, 8, 11980.	1.6	8
48	A comparative analysis of approaches to network-dismantling. Scientific Reports, 2018, 8, 13513.	1.6	90
49	Characterizing Normal and Pathological Gait through Permutation Entropy. Entropy, 2018, 20, 77.	1.1	21
50	Studying the Topology of Transportation Systems through Complex Networks: Handle with Care. Journal of Advanced Transportation, 2018, 2018, 1-17.	0.9	44
51	Profiling Lung Cancer Patients Using Electronic Health Records. Journal of Medical Systems, 2018, 42, 126.	2.2	17
52	Credit Card Fraud Detection through Parenclitic Network Analysis. Complexity, 2018, 2018, 1-9.	0.9	38
53	Evaluating Wikipedia as a Source of Information for Disease Understanding. , 2018, , .		7
54	Understanding diseases as increased heterogeneity: a complex network computational framework. Journal of the Royal Society Interface, 2018, 15, 20180405.	1.5	10

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55	Assessing Time Series Reversibility through Permutation Patterns. Entropy, 2018, 20, 665.	1.1	33
56	Worldwide air transportation networks: a matter of scale and fractality?. Transportmetrica A: Transport Science, 2017, 13, 607-630.	1.3	12
57	Detecting switching and intermittent causalities in time series. Chaos, 2017, 27, 047403.	1.0	13
58	ATM performance measurement in Europe, the US and China. Chinese Journal of Aeronautics, 2017, 30, 479-490.	2.8	16
59	Network analysis of Chinese air transport delay propagation. Chinese Journal of Aeronautics, 2017, 30, 491-499.	2.8	45
60	Beyond Linear Delay Multipliers in Air Transport. Journal of Advanced Transportation, 2017, 2017, 1-11.	0.9	9
61	The ACE Brain. Frontiers in Computational Neuroscience, 2016, 10, 122.	1.2	0
62	Beware of the Small-World Neuroscientist!. Frontiers in Human Neuroscience, 2016, 10, 96.	1.0	53
63	From phenotype to genotype in complex brain networks. Scientific Reports, 2016, 6, 19790.	1.6	4
64	Combining complex networks and data mining: Why and how. Physics Reports, 2016, 635, 1-44.	10.3	139
65	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
66	The topology of card transaction money flows. Physica A: Statistical Mechanics and Its Applications, 2016, 462, 134-140.	1.2	8
67	Generation and recovery of airborne delays in air transport. Transportation Research Part C: Emerging Technologies, 2016, 69, 436-450.	3.9	28
68	Towards a secure trading of aviation CO2 allowance. Journal of Air Transport Management, 2016, 56, 3-11.	2.4	14
69	On causality of extreme events. PeerJ, 2016, 4, e21111.	0.9	4
70	Identity Assurance through EEG Recordings. Advances in Human and Social Aspects of Technology Book Series, 2016, , 545-555.	0.3	0
71	Using complex networks for refining survival prognosis in prostate cancer patient. F1000Research, 2016, 5, 2675.	0.8	2
72	Studying Attacks to Information Systems Using Functional Networks. Frontiers in ICT, 2015, 2, .	3.6	1

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73	Design and Implementation of a Secure Auction System for Air Transport Slots. , 2015, , .		1
74	Anomalous consistency in Mild Cognitive Impairment: A complex networks approach. Chaos, Solitons and Fractals, 2015, 70, 144-155.	2.5	4
75	Can we neglect the multi-layer structure of functional networks?. Physica A: Statistical Mechanics and Its Applications, 2015, 430, 184-192.	1.2	53
76	Applying complexity science to air traffic management. Journal of Air Transport Management, 2015, 42, 149-158.	2.4	87
77	Probabilistic Constraint Programming for Parameters Optimisation of Generative Models. Lecture Notes in Computer Science, 2015, , 376-387.	1.0	1
78	Reconstructing functional brain networks: have we got the basics right?. Frontiers in Human Neuroscience, 2014, 8, 107.	1.0	22
79	Characterizing Motif Dynamics of Electric Brain Activity Using Symbolic Analysis. Entropy, 2014, 16, 5654-5667.	1.1	1
80	Gray code permutation algorithm for high-dimensional data encryption. Information Sciences, 2014, 270, 288-297.	4.0	34
81	Network analysis reveals patterns behind air safety events. Physica A: Statistical Mechanics and Its Applications, 2014, 401, 201-206.	1.2	25
82	Information content: Assessing meso-scale structures in complex networks. Europhysics Letters, 2014, 106, 30001.	0.7	20
83	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
84	The structure and dynamics of multilayer networks. Physics Reports, 2014, 544, 1-122.	10.3	2,469
85	Parentic networks: uncovering new functions in biological data. Scientific Reports, 2014, 4, 5112.	1.6	19
86	Analysis of Complex Data by Means of Complex Networks. IFIP Advances in Information and Communication Technology, 2014, , 39-46.	0.5	2
87	Spatially embedded socio-technical complex networks. European Physical Journal: Special Topics, 2013, 215, 1-4.	1.2	1
88	Modelling the air transport with complex networks: A short review. European Physical Journal: Special Topics, 2013, 215, 5-21.	1.2	205
89	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
90	Explosive transitions to synchronization in networks of phase oscillators. Scientific Reports, 2013, 3, 1281.	1.6	95

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91	Computing with complex-valued networks of phase oscillators. Europhysics Letters, 2013, 102, 40007.	0.7	1
92	Emergence of network features from multiplexity. Scientific Reports, 2013, 3, 1344.	1.6	396
93	Towards superior air transport performance metrics – imperatives and methods. Journal of Aerospace Operations, 2013, 2, 3-19.	0.1	18
94	Feature Selection in the Reconstruction of Complex Network Representations of Spectral Data. PLoS ONE, 2013, 8, e72045.	1.1	9
95	Efficient neural codes can lead to spurious synchronization. Frontiers in Computational Neuroscience, 2013, 7, 125.	1.2	1
96	Knowledge Discovery in Spectral Data by Means of Complex Networks. Metabolites, 2013, 3, 155-167.	1.3	8
97	Targeting the dynamics of complex networks. Scientific Reports, 2012, 2, 396.	1.6	38
98	Optimizing Functional Network Representation of Multivariate Time Series. Scientific Reports, 2012, 2, 630.	1.6	79
99	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
100	NONLOCAL ANALYSIS OF MODULAR ROLES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250167.	0.7	0
101	Permutation Entropy and Its Main Biomedical and Econophysics Applications: A Review. Entropy, 2012, 14, 1553-1577.	1.1	505
102	Topological Measure Locating the Effective Crossover between Segregation and Integration in a Modular Network. Physical Review Letters, 2012, 108, 228701.	2.9	29
103	Environmental benefits of air-rail intermodality: The example of Madrid Barajas. Transportation Research, Part E: Logistics and Transportation Review, 2012, 48, 1056-1063.	3.7	19
104	Characterization and exploitation of community structure in cover song networks. Pattern Recognition Letters, 2012, 33, 1032-1041.	2.6	10
105	Preprocessing and analyzing genetic data with complex networks: An application to Obstructive Nephropathy. Networks and Heterogeneous Media, 2012, 7, 473-481.	0.5	7
106	Complex networks analysis of obstructive nephropathy data. Chaos, 2011, 21, 033103.	1.0	14
107	Commodity predictability analysis with a permutation information theory approach. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 876-890.	1.2	71
108	Computation as an emergent feature of adaptive synchronization. Physical Review E, 2011, 84, 060102.	0.8	6

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109	Computation Emerges from Adaptive Synchronization of Networking Neurons. PLoS ONE, 2011, 6, e26467.	1.1	15
110	Reply to: "Comment on: "Image encryption with chaotically coupled chaotic maps" [Physica D 2010]" Physica D: Nonlinear Phenomena, 2010, 239, 1001.	1.3	3
111	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
112	NETWORKS OF SPRINGS: A PRACTICAL APPROACH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 937-942.	0.7	6
113	Dynamics in scheduled networks. Chaos, 2009, 19, 023111.	1.0	15
114	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
115	Forbidden patterns, permutation entropy and stock market inefficiency. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 2854-2864.	1.2	197
116	Jamming transition in air transportation networks. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 3948-3954.	1.2	51
117	Image encryption with chaotically coupled chaotic maps. Physica D: Nonlinear Phenomena, 2008, 237, 2638-2648.	1.3	145
118	Forbidden patterns in financial time series. Chaos, 2008, 18, 013119.	1.0	65
119	Disorder and decision cost in spatial networks. Chaos, 2008, 18, 023103.	1.0	10
120	20 years of ordinal patterns: Perspectives and challenges. Europhysics Letters, 0, , .	0.7	18