

Vincenzo Nicosia

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7485424/publications.pdf>

Version: 2024-02-01

62
papers

4,396
citations

201674

27
h-index

161849

54
g-index

67
all docs

67
docs citations

67
times ranked

3933
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural measures for multiplex networks. <i>Physical Review E</i> , 2014, 89, 032804.	2.1	517
2	Structural reducibility of multilayer networks. <i>Nature Communications</i> , 2015, 6, 6864.	12.8	400
3	Extending the definition of modularity to directed graphs with overlapping communities. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P03024.	2.3	296
4	Growing Multiplex Networks. <i>Physical Review Letters</i> , 2013, 111, 058701.	7.8	234
5	Elementary processes governing the evolution of road networks. <i>Scientific Reports</i> , 2012, 2, 296.	3.3	230
6	Remote Synchronization Reveals Network Symmetries and Functional Modules. <i>Physical Review Letters</i> , 2013, 110, 174102.	7.8	209
7	Measuring and modeling correlations in multiplex networks. <i>Physical Review E</i> , 2015, 92, 032805.	2.1	185
8	Graph Metrics for Temporal Networks. <i>Understanding Complex Systems</i> , 2013, , 15-40.	0.6	159
9	Network structure of multivariate time series. <i>Scientific Reports</i> , 2015, 5, 15508.	3.3	158
10	Defecting or Not Defecting: How to “Read” Human Behavior during Cooperative Games by EEG Measurements. <i>PLoS ONE</i> , 2010, 5, e14187.	2.5	151
11	Multilayer motif analysis of brain networks. <i>Chaos</i> , 2017, 27, 047404.	2.5	141
12	Analysing information flows and key mediators through temporal centrality metrics. , 2010, , .		114
13	Collective Phenomena Emerging from the Interactions between Dynamical Processes in Multiplex Networks. <i>Physical Review Letters</i> , 2017, 118, 138302.	7.8	107
14	The new challenges of multiplex networks: Measures and models. <i>European Physical Journal: Special Topics</i> , 2017, 226, 401-416.	2.6	101
15	Maximal-entropy random walks in complex networks with limited information. <i>Physical Review E</i> , 2011, 83, 030103.	2.1	94
16	Components in time-varying graphs. <i>Chaos</i> , 2012, 22, 023101.	2.5	94
17	Assessment of Urban Ecosystem Resilience through Hybrid Social-Physical Complex Networks. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2014, 29, 608-625.	9.8	76
18	Phase transition in the economically modeled growth of a cellular nervous system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7880-7885.	7.1	67

#	ARTICLE	IF	CITATIONS
19	Characteristic times of biased random walks on complex networks. <i>Physical Review E</i> , 2014, 89, 012803.	2.1	67
20	Controlling centrality in complex networks. <i>Scientific Reports</i> , 2012, 2, 218.	3.3	60
21	Irreducibility of multilayer network dynamics: the case of the voter model. <i>New Journal of Physics</i> , 2016, 18, 023010.	2.9	57
22	The Multiplex Dependency Structure of Financial Markets. <i>Complexity</i> , 2017, 2017, 1-13.	1.6	49
23	Social Cohesion, Structural Holes, and a Tale of Two Measures. <i>Journal of Statistical Physics</i> , 2013, 151, 745-764.	1.2	43
24	Efficient exploration of multiplex networks. <i>New Journal of Physics</i> , 2016, 18, 043035.	2.9	39
25	Nonlinear growth and condensation in multiplex networks. <i>Physical Review E</i> , 2014, 90, 042807.	2.1	38
26	Evolutionary dynamics of time-resolved social interactions. <i>Physical Review E</i> , 2014, 90, 052825.	2.1	38
27	Layered social influence promotes multiculturalism in the Axelrod model. <i>Scientific Reports</i> , 2017, 7, 1809.	3.3	38
28	Emergence of Multiplex Communities in Collaboration Networks. <i>PLoS ONE</i> , 2016, 11, e0147451.	2.5	33
29	Characteristic exponents of complex networks. <i>Europhysics Letters</i> , 2014, 106, 58005.	2.0	27
30	The importance of being placefriends. , 2012, , .		24
31	Hybrid recommendation methods in complex networks. <i>Physical Review E</i> , 2015, 92, 012811.	2.1	24
32	Applications of Temporal Graph Metrics to Real-World Networks. <i>Understanding Complex Systems</i> , 2013, , 135-159.	0.6	23
33	Social and place-focused communities in location-based online social networks. <i>European Physical Journal B</i> , 2013, 86, 1.	1.5	20
34	Interplay between consensus and coherence in a model of interacting opinions. <i>Physica D: Nonlinear Phenomena</i> , 2016, 323-324, 12-19.	2.8	19
35	Impact of network structure on a model of diffusion and competitive interaction. <i>Europhysics Letters</i> , 2011, 94, 68009.	2.0	18
36	First-passage times to quantify and compare structural correlations and heterogeneity in complex systems. <i>Communications Physics</i> , 2021, 4, .	5.3	18

#	ARTICLE	IF	CITATIONS
37	Emerging structures of P2P networks induced by social relationships. <i>Computer Communications</i> , 2008, 31, 620-628.	5.1	16
38	Multiplex Decomposition of Non-Markovian Dynamics and the Hidden Layer Reconstruction Problem. <i>Physical Review X</i> , 2018, 8, .	8.9	16
39	An adaptive overlay network inspired by social behaviour. <i>Journal of Parallel and Distributed Computing</i> , 2010, 70, 282-295.	4.1	15
40	Motion-induced synchronization in metapopulations of mobile agents. <i>Physical Review E</i> , 2013, 87, .	2.1	15
41	Impact of urban structure on infectious disease spreading. <i>Scientific Reports</i> , 2022, 12, 3816.	3.3	15
42	Nonparametric resampling of random walks for spectral network clustering. <i>Physical Review E</i> , 2014, 89, 012802.	2.1	14
43	Diffusion segregation and the disproportionate incidence of COVID-19 in African American communities. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200961.	3.4	14
44	Algorithmic Complexity of Multiplex Networks. <i>Physical Review X</i> , 2020, 10, .	8.9	10
45	Social Behaviours in P2P Systems: An Efficient Algorithm for Resource Organisation. , 2006, , .		9
46	Pareto Optimality in Multilayer Network Growth. <i>Physical Review Letters</i> , 2018, 121, 128302.	7.8	9
47	Optimal percolation in correlated multilayer networks with overlap. <i>Physical Review Research</i> , 2020, 2, .	3.6	9
48	Online visibility graphs: Encoding visibility in a binary search tree. <i>Physical Review Research</i> , 2020, 2, .	3.6	7
49	Towards hard real-time erlang. , 2007, , .		6
50	PROSA: P2P Resource Organisation by Social Acquaintances. <i>Lecture Notes in Computer Science</i> , 2006, , 135-142.	1.3	6
51	Flexible Robot Strategy Design Using Belief-Desire-Intention Model. <i>Communications in Computer and Information Science</i> , 2011, , 57-71.	0.5	6
52	Spatio-Temporal Analysis of Micro Economic Activities in Rome Reveals Patterns of Mixed-Use Urban Evolution. <i>PLoS ONE</i> , 2016, 11, e0151681.	2.5	5
53	Evaluating the Dynamic Behaviour of PROSA P2P Network. <i>Lecture Notes in Computer Science</i> , 2006, , 904-915.	1.3	4
54	Efficient Searching and Retrieval of Documents in PROSA. , 2006, , 298-309.		4

#	ARTICLE	IF	CITATIONS
55	Self-Organisation of Resources in PROSA P2P Network. Lecture Notes in Computer Science, 2006, , 171-174.	1.3	3
56	Applying Social Behaviours to Model Trusting. Studies in Computational Intelligence, 2008, , 105-114.	0.9	3
57	Optimizing the mitigation of epidemic spreading through targeted adoption of contact tracing apps. Physical Review Research, 2022, 4, .	3.6	3
58	An Approach to Trust Based on Social Networks. , 2007, , 50-61.		2
59	Co-evolution of networks and quantum dynamics: a generalization of preferential attachment. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P08016.	2.3	2
60	On robustness and self-adaptiveness of a socially inspired P2P network. , 2007, , .		1
61	The Agreement Utopia. , 2007, , .		0
62	Evolutionary Dynamics of Time-Resolved Social Interactions. SSRN Electronic Journal, 0, , .	0.4	0