Giacomo Fiumara

List of Publications by Year in descending order

53 papers	1,663 citations	567281 15 h-index	345221 36 g-index
59 all docs	59 docs citations	59 times ranked	1684 citing authors

#	Article	IF	Citations
1	Web data extraction, applications and techniques: A survey. Knowledge-Based Systems, 2014, 70, 301-323.	7.1	247
2	Generalized Louvain method for community detection in large networks. , 2011, , .		169
3	On Facebook, most ties are weak. Communications of the ACM, 2014, 57, 78-84.	4.5	125
4	Detecting criminal organizations in mobile phone networks. Expert Systems With Applications, 2014, 41, 5733-5750.	7.6	121
5	Crawling Facebook for social network analysis purposes. , 2011, , .		115
6	Mixing local and global information for community detection in large networks. Journal of Computer and System Sciences, 2014, 80, 72-87.	1.2	113
7	A novel measure of edge centrality in social networks. Knowledge-Based Systems, 2012, 30, 136-150.	7.1	108
8	A machine learning-based approach for predicting the outbreak of cardiovascular diseases in patients on dialysis. Computer Methods and Programs in Biomedicine, 2019, 177, 9-15.	4.7	86
9	Enhancing community detection using a network weighting strategy. Information Sciences, 2013, 222, 648-668.	6.9	81
10	Network structure and resilience of Mafia syndicates. Information Sciences, 2016, 351, 30-47.	6.9	60
11	Ab initiomolecular-dynamics study of electronic and optical properties of silicon quantum wires: Orientational effects. Physical Review B, 1996, 53, 1446-1451.	3.2	46
12	Robust link prediction in criminal networks: A case study of the Sicilian Mafia. Expert Systems With Applications, 2020, 161, 113666.	7.6	38
13	Disrupting resilient criminal networks through data analysis: The case of Sicilian Mafia. PLoS ONE, 2020, 15, e0236476.	2.5	37
14	Extraction and Analysis of Facebook Friendship Relations. , 2012, , 291-324.		34
15	Forensic analysis of phone call networks. Social Network Analysis and Mining, 2013, 3, 15-33.	2.8	34
16	Virial expansion of a non-additive hard-sphere mixture. Journal of Chemical Physics, 1998, 108, 9098-9101.	3.0	33
17	An Empirical Comparison of Algorithms to Find Communities in Directed Graphs and Their Application in Web Data Analytics. IEEE Transactions on Big Data, 2017, 3, 289-306.	6.1	20
18	Input Selection Methods for Soft Sensor Design: A Survey. Future Internet, 2020, 12, 97.	3.8	19

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19	A visual tool for forensic analysis of mobile phone traffic. , 2010, , .		17
20	Criminal networks analysis in missing data scenarios through graph distances. PLoS ONE, 2021, 16, e0255067.	2.5	14
21	Investigating classification supervised learning approaches for the identification of critical patients' posts in a healthcare social network. Applied Soft Computing Journal, 2020, 90, 106155.	7.2	13
22	Social Network Analysis of Sicilian Mafia Interconnections. Studies in Computational Intelligence, 2020, , 440-450.	0.9	13
23	The effective colloid interaction in the Asakura–Oosawa model. Assessment of non-pairwise terms from the virial expansion. Journal of Chemical Physics, 2015, 142, 224903.	3.0	12
24	Applying Artificial Intelligence in Healthcare Social Networks to Identity Critical Issues in Patients' Posts. , 2018, , .		12
25	Multilayer Network Analysis: The Identification of Key Actors in a Sicilian Mafia Operation. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 120-134.	0.3	10
26	The Whole Is Greater than the Sum of the Parts: A Multilayer Approach on Criminal Networks. Future Internet, 2022, 14, 123.	3.8	8
27	Improving recommendation quality by merging collaborative filtering and social relationships. , 2011, , .		7
28	Theoretical and computer simulation study of phase coexistence of nonadditive hard-disk mixtures. Journal of Chemical Physics, 2014, 141, 214508.	3.0	7
29	Virial coefficients and demixing in the Asakura–Oosawa model. Journal of Chemical Physics, 2015, 142, 014902.	3.0	7
30	Influential Spreaders Identification in Complex Networks With TOPSIS and K-Shell Decomposition. IEEE Transactions on Computational Social Systems, 2023, 10, 347-361.	4.4	7
31	Graph Comparison and Artificial Models for Simulating Real Criminal Networks. Studies in Computational Intelligence, 2021, , 286-297.	0.9	6
32	Artificial neural networks training acceleration through network science strategies. Soft Computing, 2020, 24, 17787-17795.	3.6	5
33	Correlations Among Game of Thieves and Other Centrality Measures in Complex Networks. Internet of Things, 2021, , 43-62.	1.7	5
34	Adaptive search over sorted sets. Journal of Discrete Algorithms, 2015, 30, 128-133.	0.7	4
35	Virial coefficients, equation of state, and demixing of binary asymmetric nonadditive hard-disk mixtures. Journal of Chemical Physics, 2017, 147, 164502.	3.0	4
36	Graph and Network Theory for the Analysis of Criminal Networks. Internet of Things, 2021, , 139-156.	1.7	4

#	Article	IF	Citations
37	Game of Thieves and WERW-Kpath: Two Novel Measures of Node and Edge Centrality for Mafia Networks. Springer Proceedings in Complexity, 2021, , 12-23.	0.3	3
38	Studying Physics, Getting to Know Python: *RC* Circuit, Simple Experiments, Coding, and Data Analysis With Raspberry Pi. Computing in Science and Engineering, 2021, 23, 93-96.	1.2	3
39	Analysis of a NoSQL Graph DBMS for a Hospital Social Network. , 2018, , .		2
40	Correlation Analysis of Node and Edge Centrality Measures in Artificial Complex Networks. Lecture Notes in Networks and Systems, 2022, , 901-908.	0.7	2
41	Artificial Neural Networks Training Acceleration Through Network Science Strategies. Lecture Notes in Computer Science, 2020, , 330-336.	1.3	2
42	Rendering of 3D Dynamic Virtual Environments. , 2011, , .		2
43	A Framework for Designing 3D Virtual Environments. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 209-218.	0.3	2
44	Uncovering Criminal Behavior with Computational Tools. , 2015, , 177-207.		2
45	Adaptive Web Data Extraction Policies. , 2007, , .		1
46	Rule-Based Spam E-mail Annotation. Lecture Notes in Computer Science, 2010, , 231-234.	1.3	1
47	Finding Similar Users in Facebook. , 0, , 304-323.		1
48	Simple Physics With Python: A Workbook on Introductory Physics With Open-Source Software. Computing in Science and Engineering, 2022, 24, 74-78.	1.2	1
49	RDF annotation of Second Life objects: Knowledge Representation meets Social Virtual reality. Computational and Mathematical Organization Theory, 2014, 20, 20-35.	2.0	0
50	Knowledge Representation in Virtual Teams: A Perspective Approach for Synthetic Worlds. International Federation for Information Processing, 2010, , 619-625.	0.4	0
51	Living city: a collaborative browser-based Massively Multiplayer Online Game. , 2012, , .		0
52	The Role of Schema and Document Matchings in XML Source Clustering. Advances in Data Mining and Database Management Book Series, 0, , 125-153.	0.5	0
53	Dynamic Community Discovery Method Based on Phylogenetic Planted Partition in Temporal Networks. Applied Sciences (Switzerland), 2022, 12, 3795.	2.5	0