Yong-Yeol Ahn

List of Publications by Year
in descending order

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68 papers	7,989 citations	201674 27 h-index	114465 63 g-index
73 all docs	73 docs citations	73 times ranked	9106 citing authors

#	Article	IF	Citations
1	Link communities reveal multiscale complexity in networks. Nature, 2010, 466, 761-764.	27.8	1,534
2	I tube, you tube, everybody tubes. , 2007, , .		1,112
3	Evidence for Network Evolution in an Arabidopsis Interactome Map. Science, 2011, 333, 601-607.	12.6	838
4	Analysis of topological characteristics of huge online social networking services. , 2007, , .		596
5	Analyzing the Video Popularity Characteristics of Large-Scale User Generated Content Systems. IEEE/ACM Transactions on Networking, 2009, 17, 1357-1370.	3.8	437
6	Virality Prediction and Community Structure in Social Networks. Scientific Reports, 2013, 3, 2522.	3.3	416
7	Cooperative and Competitive Spreading Dynamics on the Human Connectome. Neuron, 2015, 86, 1518-1529.	8.1	309
8	Flavor network and the principles of food pairing. Scientific Reports, 2011, 1, 196.	3.3	300
9	Evidence from internet search data shows information-seeking responses to news of local COVID-19 cases. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11220-11222.	7.1	219
10	Optimal Network Modularity for Information Diffusion. Physical Review Letters, 2014, 113, 088701.	7.8	213
11	Factors affecting sex-related reporting in medical research: a cross-disciplinary bibliometric analysis. Lancet, The, 2019, 393, 550-559.	13.7	195
12	A network framework of cultural history. Science, 2014, 345, 558-562.	12.6	151
13	Comparison of online social relations in volume vs interaction. , 2008, , .		125
14	Systematic Evaluation of State Policy Interventions Targeting the US Opioid Epidemic, 2007-2018. JAMA Network Open, 2021, 4, e2036687.	5.9	95
15	A systematic identification and analysis of scientists on Twitter. PLoS ONE, 2017, 12, e0175368.	2.5	91
16	The effectiveness of backward contact tracing in networks. Nature Physics, 2021, 17, 652-658.	16.7	85
17	Community-Enhanced De-anonymization of Online Social Networks. , 2014, , .		80
18	Overlapping community detection in complex networks using symmetric binary matrix factorization. Physical Review E, 2013, 87, 062803.	2.1	79

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19	Element-centric clustering comparison unifies overlaps and hierarchy. Scientific Reports, 2019, 9, 8574.	3.3	62
20	Topological Cluster Analysis Reveals the Systemic Organization of the Caenorhabditis elegans Connectome. PLoS Computational Biology, 2011, 7, e1001139.	3.2	61
21	Geography and Similarity of Regional Cuisines in China. PLoS ONE, 2013, 8, e79161.	2.5	60
22	Wiring cost in the organization of a biological neuronal network. Physica A: Statistical Mechanics and Its Applications, 2006, 367, 531-537.	2.6	55
23	Optimizing drugâ€“target interaction prediction based on random walk on heterogeneous networks. Journal of Cheminformatics, 2015, 7, 40.	6.1	54
24	Googling Social Interactions: Web Search Engine Based Social Network Construction. PLoS ONE, 2010, 5, e11233.	2.5	47
25	Epidemic dynamics of two species of interacting particles on scale-free networks. Physical Review E, 2006, 74, 066113.	2.1	43
26	Misinformation, believability, and vaccine acceptance over 40 countries: Takeaways from the initial phase of the COVID-19 infodemic. PLoS ONE, 2022, 17, e0263381.	2.5	41
27	Global labor flow network reveals the hierarchical organization and dynamics of geo-industrial clusters. Nature Communications, 2019, 10, 3449.	12.8	37
28	Delayed information cascades in Flickr: Measurement, analysis, and modeling. Computer Networks, 2012, 56, 1066-1076.	5.1	35
29	Growing network model for community with group structure. Physical Review E, 2005, 71, 036131.	2.1	34
30	Optimal modularity and memory capacity of neural reservoirs. Network Neuroscience, 2019, 3, 551-566.	2.6	34
31	Collective Dynamics of Belief Evolution under Cognitive Coherence and Social Conformity. PLoS ONE, 2016, 11, e0165910.	2.5	33
32	Quantifying socio-economic indicators in developing countries from mobile phone communication data: applications to CÃ´te dâ€™Ivoire. EPJ Data Science, 2015, 4, .	2.8	31
33	Substitution of Nonpharmacologic Therapy With Opioid Prescribing for Pain During the COVID-19 Pandemic. JAMA Network Open, 2021, 4, e2138453.	5.9	30
34	Tie strength distribution in scientific collaboration networks. Physical Review E, 2014, 90, 032804.	2.1	26
35	Neural embeddings of scholarly periodicals reveal complex disciplinary organizations. Science Advances, 2021, 7, .	10.3	26
36	Information overload in group communication: from conversation to cacophony in the Twitch chat. Royal Society Open Science, 2019, 6, 191412.	2.4	23

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37	Prevalence of Misinformation and Factchecks on the COVID-19 Pandemic in 35 Countries: Observational Infodemiology Study. JMIR Human Factors, 2021, 8, e23279.	2.0	21
38	Principled approach to the selection of the embedding dimension of networks. Nature Communications, 2021, 12, 3772.	12.8	21
39	FrameAxis: characterizing microframe bias and intensity with word embedding. PeerJ Computer Science, 2021, 7, e644.	4.5	20
40	SemAxis: A Lightweight Framework to Characterize Domain-Specific Word Semantics Beyond Sentiment. , 2018, , .		20
41	Robustness and modular structure in networks. Network Science, 2015, 3, 509-525.	1.0	18
42	Social contagions on weighted networks. Physical Review E, 2017, 96, 012306.	2.1	18
43	Community detection in bipartite networks using weighted symmetric binary matrix factorization. International Journal of Modern Physics C, 2015, 26, 1550096.	1.7	17
44	Metabolic Network Analysis-Based Identification of Antimicrobial Drug Targets in Category A Bioterrorism Agents. PLoS ONE, 2014, 9, e85195.	2.5	16
45	The latent structure of global scientific development. Nature Human Behaviour, 2022, 6, 1206-1217.	12.0	16
46	The Flavor Network. Leonardo, 2013, 46, 272-273.	0.3	15
47	Community-Based Event Detection in Temporal Networks. Scientific Reports, 2019, 9, 4358.	3.3	15
48	Improving land use inference by factorizing mobile phone call activity matrix. Journal of Land Use Science, 2017, 12, 138-153.	2.2	14
49	CluSim: a python package for calculating clustering similarity. Journal of Open Source Software, 2019, 4, 1264.	4.6	13
50	Metrics and mechanisms: Measuring the unmeasurable in the science of science. Journal of Informetrics, 2022, 16, 101290.	2.9	13
51	Co-prescription network reveals social dynamics of opioid doctor shopping. PLoS ONE, 2019, 14, e0223849.	2.5	12
52	Characterizing partisan political narrative frameworks about COVID-19 on Twitter. EPJ Data Science, 2021, 10, 53.	2.8	12
53	Data-driven Methods for the Study of Food Perception, Preparation, Consumption, and Culture. Frontiers in ICT, 2017, 4, .	3.6	11
54	Coâ€contributorship network and division of labor in individual scientific collaborations. Journal of the Association for Information Science and Technology, 2020, 71, 1162-1178.	2.9	11

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55	Inverse Resolution Limit of Partition Density and Detecting Overlapping Communities by Link-Surprise. Scientific Reports, 2017, 7, 12399.	3.3	8
56	The Minor fall, the Major lift: inferring emotional valence of musical chords through lyrics. Royal Society Open Science, 2017, 4, 170952.	2.4	8
57	Spreading in Social Systems: Reflections. Computational Social Sciences, 2018, , 351-358.	0.4	8
58	The Multi-Scale Network Landscape of Collaboration. PLoS ONE, 2016, 11, e0151784.	2.5	6
59	On the challenges of predicting microscopic dynamics of online conversations. Applied Network Science, 2021, 6, .	1.5	6
60	Scalable Detection of Viral Memes from Diffusion Patterns. Computational Social Sciences, 2018, , 197-211.	0.4	5
61	Race and the beauty premium: Mechanical Turk workersâ€™ evaluations of Twitter accounts. Information, Communication and Society, 2019, 22, 709-716.	4.0	5
62	A Systematic Media Frame Analysis of 1.5 Million New York Times Articles from 2000 to 2017. , 2020, , .		5
63	New means, new measures: assessing prescription drugâ€seeking indicators over 10 years of the opioid epidemic. Addiction, 2022, 117, 195-204.	3.3	4
64	Underlying Scale-Free Trees in Complex Networks. Progress of Theoretical Physics Supplement, 2005, 157, 213-220.	0.1	3
65	Persona2vec: a flexible multi-role representations learning framework for graphs. PeerJ Computer Science, 2021, 7, e439.	4.5	3
66	BiRank: Fast and Flexible Ranking on Bipartite Networks with R and Python. Journal of Open Source Software, 2020, 5, 2315.	4.6	3
67	Network Landscape of Western Classical Music. Leonardo, 2016, 49, 448-448.	0.3	2
68	Use of and Comorbidities Associated With Diagnostic Codes for COVID-19 in US Health Insurance Claims. JAMA Network Open, 2021, 4, e2124643.	5.9	2