

Emilio Ferrara

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

145
papers

6,905
citations

39
h-index

81
g-index

161
ext. papers

9,063
ext. citations

4.1
avg, IF

7.04
L-index

#	Paper	IF	Citations
145	The rise of social bots. <i>Communications of the ACM</i> , 2016 , 59, 96-104	2.5	847
144	Graph embedding techniques, applications, and performance: A survey. <i>Knowledge-Based Systems</i> , 2018 , 151, 78-94	7.3	675
143	BotOrNot 2016 ,		316
142	Social bots distort the 2016 U.S. Presidential election online discussion. <i>First Monday</i> ,		270
141	Tracking Social Media Discourse About the COVID-19 Pandemic: Development of a Public Coronavirus Twitter Data Set. <i>JMIR Public Health and Surveillance</i> , 2020 , 6, e19273	11.4	229
140	Defining and identifying Sleeping Beauties in science. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 7426-31	11.5	207
139	The DARPA Twitter Bot Challenge. <i>Computer</i> , 2016 , 49, 38-46	1.6	198
138	Bots increase exposure to negative and inflammatory content in online social systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 12435-12440	11.5	181
137	Measuring Emotional Contagion in Social Media. <i>PLoS ONE</i> , 2015 , 10, e0142390	3.7	179
136	Web data extraction, applications and techniques: A survey. <i>Knowledge-Based Systems</i> , 2014 , 70, 301-323	3.3	167
135	Evidence of complex contagion of information in social media: An experiment using Twitter bots. <i>PLoS ONE</i> , 2017 , 12, e0184148	3.7	166
134	Optimal network modularity for information diffusion. <i>Physical Review Letters</i> , 2014 , 113, 088701	7.4	161
133	Arming the public with artificial intelligence to counter social bots. <i>Human Behavior and Emerging Technologies</i> , 2019 , 1, 48-61	10.2	147
132	Deep neural networks for bot detection. <i>Information Sciences</i> , 2018 , 467, 312-322	7.7	142
131	The digital evolution of occupy wall street. <i>PLoS ONE</i> , 2013 , 8, e64679	3.7	108
130	Analyzing the Digital Traces of Political Manipulation: The 2016 Russian Interference Twitter Campaign 2018 ,		108
129	On Facebook, most ties are weak. <i>Communications of the ACM</i> , 2014 , 57, 78-84	2.5	107

128	Disinformation and social bot operations in the run up to the 2017 French presidential election. <i>First Monday</i> ,		103
127	Quantifying the effect of sentiment on information diffusion in social media. <i>PeerJ Computer Science</i> ,1, e26	2.7	92
126	Detecting criminal organizations in mobile phone networks. <i>Expert Systems With Applications</i> , 2014 , 41, 5733-5750	7.8	90
125	Mixing local and global information for community detection in large networks. <i>Journal of Computer and System Sciences</i> , 2014 , 80, 72-87	1	87
124	The geospatial characteristics of a social movement communication network. <i>PLoS ONE</i> , 2013 , 8, e55957	3.7	85
123	A novel measure of edge centrality in social networks. <i>Knowledge-Based Systems</i> , 2012 , 30, 136-150	7.3	82
122	Generalized Louvain method for community detection in large networks 2011 ,		79
121	Crawling Facebook for social network analysis purposes 2011 ,		78
120	E-Cigarette Surveillance With Social Media Data: Social Bots, Emerging Topics, and Trends. <i>JMIR Public Health and Surveillance</i> , 2017 , 3, e98	11.4	77
119	Online popularity and topical interests through the lens of instagram 2014 ,		70
118	Enhancing community detection using a network weighting strategy. <i>Information Sciences</i> , 2013 , 222, 648-668	7.7	64
117	Trust and compactness in social network groups. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 205-16	10.2	59
116	Political Polarization Drives Online Conversations About COVID-19 in the United States. <i>Human Behavior and Emerging Technologies</i> , 2020 , 2, 200	10.2	56
115	Predicting Online Extremism, Content Adopters, and Interaction Reciprocity. <i>Lecture Notes in Computer Science</i> , 2016 , 22-39	0.9	56
114	Early detection of promoted campaigns on social media. <i>EPJ Data Science</i> , 2017 , 6,	3.4	53
113	Evolution of online user behavior during a social upheaval 2014 ,		51
112	What types of COVID-19 conspiracies are populated by Twitter bots?. <i>First Monday</i> ,		50
111	Could Social Bots Pose a Threat to Public Health?. <i>American Journal of Public Health</i> , 2018 , 108, 1005-1006	1	48

110	A large-scale community structure analysis in Facebook. <i>EPJ Data Science</i> , 2012 , 1,	3.4	46
109	Network structure and resilience of Mafia syndicates. <i>Information Sciences</i> , 2016 , 351, 30-47	7.7	45
108	The Importance of Debiasing Social Media Data to Better Understand E-Cigarette-Related Attitudes and Behaviors. <i>Journal of Medical Internet Research</i> , 2016 , 18, e219	7.6	41
107	Misinformation, manipulation, and abuse on social media in the era of COVID-19. <i>Journal of Computational Social Science</i> , 2020 , 3, 1-7	3	41
106	Contagion dynamics of extremist propaganda in social networks. <i>Information Sciences</i> , 2017 , 418-419, 1-12	7.7	39
105	Who Falls for Online Political Manipulation? 2019 ,		37
104	Disinformation and Social Bot Operations in the Run Up to the 2017 French Presidential Election. <i>SSRN Electronic Journal</i> , 2017 ,	1	37
103	Traveling trends 2013 ,		36
102	Early Warnings of Cyber Threats in Online Discussions 2017 ,		34
101	Clustering memes in social media 2013 ,		34
100	Community structure discovery in Facebook. <i>International Journal of Social Network Mining</i> , 2012 , 1, 67	0.7	34
99	Forensic analysis of phone call networks. <i>Social Network Analysis and Mining</i> , 2013 , 3, 15-33	2.2	31
98	Scientific impact evaluation and the effect of self-citations: Mitigating the bias by discounting the h-index. <i>Journal of the Association for Information Science and Technology</i> , 2013 , 64, 2332-2339		29
97	Red Bots Do It Better: Comparative Analysis of Social Bot Partisan Behavior 2019 ,		28
96	COVID-19 Vaccine Hesitancy on Social Media: Building a Public Twitter Data Set of Antivaccine Content, Vaccine Misinformation, and Conspiracies. <i>JMIR Public Health and Surveillance</i> , 2021 , 7, e30642	11.4	28
95	"Manipulation and abuse on social media" by Emilio Ferrara with Ching-man Au Yeung as coordinator. <i>SIGWEB Newsletter: the Newsletter of ACM's Special Interest Group on Hypertext and Hypermedia</i> , 2015 , 1-9	0.6	27
94	The history of digital spam. <i>Communications of the ACM</i> , 2019 , 62, 82-91	2.5	25
93	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2015 , 45, 559-570	7.3	24

92	Non-Negative Tensor Factorization for Human Behavioral Pattern Mining in Online Games. <i>Information (Switzerland)</i> , 2018 , 9, 66	2.6	24
91	Trust Networks: Topology, Dynamics, and Measurements. <i>IEEE Internet Computing</i> , 2015 , 19, 26-35	2.4	23
90	Characterizing the 2016 Russian IRA influence campaign. <i>Social Network Analysis and Mining</i> , 2019 , 9, 1	2.2	22
89	Extraction and Analysis of Facebook Friendship Relations 2012 , 291-324		22
88	Measuring Social Spam and the Effect of Bots on Information Diffusion in Social Media. <i>Computational Social Sciences</i> , 2018 , 229-255	0.7	22
87	Evidence of Online Performance Deterioration in User Sessions on Reddit. <i>PLoS ONE</i> , 2016 , 11, e0161636	1.7	21
86	The rise of Jihadist propaganda on social networks. <i>Journal of Computational Social Science</i> , 2018 , 1, 453-470	3	20
85	OSoMe: the IUNI observatory on social media. <i>PeerJ Computer Science</i> , 2018 , 2, e87	2.7	20
84	Charting the Landscape of Online Cryptocurrency Manipulation. <i>IEEE Access</i> , 2020 , 8, 113230-113245	3.5	20
83	Predicting Cyber-Events by Leveraging Hacker Sentiment. <i>Information (Switzerland)</i> , 2018 , 9, 280	2.6	20
82	DISCOVER 2018 ,		19
81	Characterizing social media manipulation in the 2020 U.S. presidential election. <i>First Monday</i> ,		19
80	Gender Disparity in the Authorship of Biomedical Research Publications During the COVID-19 Pandemic: Retrospective Observational Study. <i>Journal of Medical Internet Research</i> , 2021 , 23, e25379	7.6	19
79	Quality versus quantity in scientific impact. <i>Journal of Informetrics</i> , 2015 , 9, 800-808	3.1	18
78	Individual performance in team-based online games. <i>Royal Society Open Science</i> , 2018 , 5, 180329	3.3	18
77	Does Streaming Esports Affect Players' Behavior and Performance?. <i>Games and Culture</i> , 2020 , 15, 9-31	1.9	18
76	Analyzing user behavior across social sharing environments. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2013 , 5, 1-31	8	17
75	Style in the Age of Instagram 2016 ,		17

74	Social Politics: Agenda Setting and Political Communication on Social Media. <i>Lecture Notes in Computer Science</i> , 2016 , 330-344	0.9	16
73	Clustering memes in social media streams. <i>Social Network Analysis and Mining</i> , 2014 , 4, 1	2.2	16
72	XML Matchers: Approaches and challenges. <i>Knowledge-Based Systems</i> , 2014 , 66, 190-209	7.3	15
71	Multimodal Human and Environmental Sensing for Longitudinal Behavioral Studies in Naturalistic Settings: Framework for Sensor Selection, Deployment, and Management. <i>Journal of Medical Internet Research</i> , 2019 , 21, e12832	7.6	15
70	Lessons Learned: Recommendations For Implementing a Longitudinal Study Using Wearable and Environmental Sensors in a Health Care Organization. <i>JMIR MHealth and UHealth</i> , 2019 , 7, e13305	5.5	15
69	Capturing Edge Attributes via Network Embedding. <i>IEEE Transactions on Computational Social Systems</i> , 2018 , 5, 907-917	4.5	15
68	COVID-19 misinformation and the 2020 U.S. presidential election 2021 ,		14
67	#Election2020: the first public Twitter dataset on the 2020 US Presidential election. <i>Journal of Computational Social Science</i> , 2021 , 1-18	3	14
66	Bots, Elections, and Social Media: A Brief Overview. <i>Lecture Notes in Social Networks</i> , 2020 , 95-114	0.6	13
65	Latent Space Model for Multi-Modal Social Data 2016 ,		13
64	Automatic Wrapper Adaptation by Tree Edit Distance Matching. <i>Smart Innovation, Systems and Technologies</i> , 2011 , 41-54	0.5	12
63	TILES-2018, a longitudinal physiologic and behavioral data set of hospital workers. <i>Scientific Data</i> , 2020 , 7, 354	8.2	12
62	Evolution of bot and human behavior during elections. <i>First Monday</i> ,		11
61	Disrupting the COVID-19 Misinfodemic With Network Interventions: Network Solutions for Network Problems. <i>American Journal of Public Health</i> , 2021 , 111, 514-519	5.1	10
60	Perils and Challenges of Social Media and Election Manipulation Analysis: The 2018 US Midterms 2019 ,		9
59	Parallel Clustering of High-Dimensional Social Media Data Streams 2015 ,		9
58	Measuring Bot and Human Behavioral Dynamics. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	9
57	GEM: A Python package for graph embedding methods. <i>Journal of Open Source Software</i> , 2018 , 3, 876	5.2	9

56	Auditing Algorithmic Bias on Twitter 2021 ,		9
55	Social Media Polarization and Echo Chambers in the Context of COVID-19: Case Study. <i>Jmirx Med</i> , 2021 , 2, e29570	0.2	9
54	Discovering patterns of online popularity from time series. <i>Expert Systems With Applications</i> , 2020 , 151, 113337	7.8	8
53	On Predictability of Rare Events Leveraging Social Media 2015 ,		8
52	Characterizing Activity on the Deep and Dark Web 2019 ,		7
51	Understanding Cyberbullying on Instagram and Ask.fm via Social Role Detection 2019 ,		7
50	Political Partisanship and Antiscience Attitudes in Online Discussions About COVID-19: Twitter Content Analysis. <i>Journal of Medical Internet Research</i> , 2021 , 23, e26692	7.6	7
49	Recommending Teammates with Deep Neural Networks 2018 ,		7
48	2017 ,		6
47	2011 ,		6
46	Effective retrieval of resources in folksonomies using a new tag similarity measure 2011 ,		6
45	Embedding Networks with Edge Attributes 2018 ,		5
44	Senator, We Sell Ads—Analysis of the 2016 Russian Facebook Ads Campaign. <i>Communications in Computer and Information Science</i> , 2019 , 151-168	0.3	5
43	2019 ,		5
42	The Rise of Jihadist Propaganda on Social Networks. <i>SSRN Electronic Journal</i> , 2017 ,	1	4
41	Adaptive search over sorted sets. <i>Journal of Discrete Algorithms</i> , 2015 , 30, 128-133		4
40	Network modularity controls the speed of information diffusion. <i>Physical Review E</i> , 2020 , 102, 052316	2.4	4
39	The Wide, the Deep, and the Maverick. <i>Proceedings of the ACM on Human-Computer Interaction</i> , 2021 , 5, 1-26	3.4	4

38	COVID-19 Vaccine Hesitancy on Social Media: Building a Public Twitter Dataset of Anti-vaccine Content, Vaccine Misinformation and Conspiracies (Preprint)		4
37	Language, demographics, emotions, and the structure of online social networks. <i>Journal of Computational Social Science</i> , 2018 , 1, 209-225	3	4
36	Discovering Latent Psychological Structures from Self-Report Assessments of Hospital Workers 2018 ,		4
35	Social Bots for Online Public Health Interventions 2018 ,		4
34	Collective behaviors and networks. <i>EPJ Data Science</i> , 2014 , 3,	3-4	3
33	Intelligent Self-repairable Web Wrappers. <i>Lecture Notes in Computer Science</i> , 2011 , 274-285	0.9	3
32	Deep Neural Networks for Optimal Team Composition. <i>Frontiers in Big Data</i> , 2019 , 2, 14	2.8	3
31	Detecting cryptocurrency pump-and-dump frauds using market and social signals. <i>Expert Systems With Applications</i> , 2021 , 182, 115284	7.8	3
30	Toward computational crime prediction: comment on "Statistical physics of crime: a review" by M.R. D'Orsogna and M. Perc. <i>Physics of Life Reviews</i> , 2015 , 12, 28-9	2.1	2
29	Affect Estimation with Wearable Sensors.. <i>Journal of Healthcare Informatics Research</i> , 2020 , 4, 261-294	4	2
28	Learning Behavioral Representations from Wearable Sensors. <i>Lecture Notes in Computer Science</i> , 2020 , 245-254	0.9	2
27	Political Partisanship and Antiscience Attitudes in Online Discussions About COVID-19: Twitter Content Analysis (Preprint)		2
26	Rendering of 3D Dynamic Virtual Environments 2011 ,		2
25	Predictability limit of partially observed systems. <i>Scientific Reports</i> , 2020 , 10, 20427	4.9	2
24	Topics of Nicotine-Related Discussions on Twitter: Infoveillance Study. <i>Journal of Medical Internet Research</i> , 2021 , 23, e25579	7.6	2
23	Digital Civic Participation and Misinformation during the 2020 Taiwanese Presidential Election. <i>Media and Communication</i> , 2021 , 9, 144-157	2	2
22	Mining and Forecasting Career Trajectories of Music Artists 2018 ,		2
21	Extracting the multi-timescale activity patterns of online financial markets. <i>Scientific Reports</i> , 2018 , 8, 11184	4.9	2

20	Graph signal recovery using restricted Boltzmann machines. <i>Expert Systems With Applications</i> , 2021 , 185, 115635	7.8	2
19	Having a Bad Day? Detecting the Impact of Atypical Events Using Wearable Sensors. <i>Lecture Notes in Computer Science</i> , 2021 , 257-267	0.9	2
18	SoReC: A Social-Relation Based Centrality Measure in Mobile Social Networks 2019 ,		1
17	The Influence of Social Ties on Performance in Team-based Online Games. <i>IEEE Transactions on Games</i> , 2019 , 1-1	1.2	1
16	Contagion Dynamics of Extremist Propaganda in Social Networks. <i>SSRN Electronic Journal</i> , 2017 ,	1	1
15	Individualized Context-Aware Tensor Factorization for Online Games Predictions		1
14	Charting the Information and Misinformation Landscape to Characterize Misinfodemics on Social Media: COVID-19 Infodemiology Study at a Planetary Scale.. <i>JMIR Infodemiology</i> , 2022 , 2, e32378		1
13	Tracking Social Media Discourse About the COVID-19 Pandemic: Development of a Public Coronavirus Twitter Data Set (Preprint)		1
12	Finding Similar Users in Facebook304-323		1
11	Gender Disparity in the Authorship of Biomedical Research Publications During the COVID-19 Pandemic: Retrospective Observational Study (Preprint)		1
10	Lessons Learned: Recommendations For Implementing a Longitudinal Study Using Wearable and Environmental Sensors in a Health Care Organization (Preprint)		1
9	User-Based Collaborative Filtering Mobile Health System 2020 , 4, 1-17		1
8	Uncovering Criminal Behavior with Computational Tools 2015 , 177-207		1
7	Social Media Polarization and Echo Chambers in the Context of COVID-19: Case Study (Preprint)		1
6	The impact of peer review on the contribution potential of scientific papers. <i>PeerJ</i> , 2021 , 9, e11999	3.1	1
5	Detecting multi-timescale consumption patterns from receipt data: a non-negative tensor factorization approach. <i>Journal of Computational Social Science</i> , 2020 , 1	3	0
4	Measurement and Analysis of Online Social Networks Systems 2016 , 1-3		
3	A Framework for Designing 3D Virtual Environments. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2012 , 209-218	0.2	

2	Structural Node Embedding in Signed Social Networks: Finding Online Misbehavior at Multiple Scales. <i>Studies in Computational Intelligence</i> , 2021 , 3-14	0.8
1	Authors' Response to Peer Reviews of Social Media Polarization and Echo Chambers in the Context of COVID-19: Case Study <i>Jmirx Med</i> , 2021 , 2, e32266	0.2