

Emilio Ferrara

List of Publications by Year in descending order

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Version: 2024-02-01

145
papers

11,160
citations

81900

39
h-index

49909

87
g-index

161
all docs

161
docs citations

161
times ranked

7985
citing authors

#	ARTICLE	IF	CITATIONS
1	The rise of social bots. Communications of the ACM, 2016, 59, 96-104.	4.5	1,263
2	Graph embedding techniques, applications, and performance: A survey. Knowledge-Based Systems, 2018, 151, 78-94.	7.1	1,159
3	BotOrNot. , 2016, , .		510
4	Tracking Social Media Discourse About the COVID-19 Pandemic: Development of a Public Coronavirus Twitter Data Set. JMIR Public Health and Surveillance, 2020, 6, e19273.	2.6	451
5	Social bots distort the 2016 U.S. Presidential election online discussion. First Monday, 0, , .	0.6	398
6	Defining and identifying Sleeping Beauties in science. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7426-7431.	7.1	296
7	Measuring Emotional Contagion in Social Media. PLoS ONE, 2015, 10, e0142390.	2.5	294
8	Deep neural networks for bot detection. Information Sciences, 2018, 467, 312-322.	6.9	286
9	Bots increase exposure to negative and inflammatory content in online social systems. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12435-12440.	7.1	283
10	The DARPA Twitter Bot Challenge. Computer, 2016, 49, 38-46.	1.1	277
11	Web data extraction, applications and techniques: A survey. Knowledge-Based Systems, 2014, 70, 301-323.	7.1	247
12	Arming the public with artificial intelligence to counter social bots. Human Behavior and Emerging Technologies, 2019, 1, 48-61.	4.4	238
13	Evidence of complex contagion of information in social media: An experiment using Twitter bots. PLoS ONE, 2017, 12, e0184148.	2.5	225
14	Optimal Network Modularity for Information Diffusion. Physical Review Letters, 2014, 113, 088701.	7.8	213
15	Disinformation and social bot operations in the run up to the 2017 French presidential election. First Monday, 0, , .	0.6	172
16	Generalized Louvain method for community detection in large networks. , 2011, , .		169
17	COVID-19 Vaccine Hesitancy on Social Media: Building a Public Twitter Data Set of Antivaccine Content, Vaccine Misinformation, and Conspiracies. JMIR Public Health and Surveillance, 2021, 7, e30642.	2.6	162
18	Analyzing the Digital Traces of Political Manipulation: The 2016 Russian Interference Twitter Campaign. , 2018, , .		159

#	ARTICLE	IF	CITATIONS
19	Quantifying the effect of sentiment on information diffusion in social media. PeerJ Computer Science, 0, 1, e26.	4.5	139
20	The Digital Evolution of Occupy Wall Street. PLoS ONE, 2013, 8, e64679.	2.5	132
21	On Facebook, most ties are weak. Communications of the ACM, 2014, 57, 78-84.	4.5	125
22	E-Cigarette Surveillance With Social Media Data: Social Bots, Emerging Topics, and Trends. JMIR Public Health and Surveillance, 2017, 3, e98.	2.6	122
23	Detecting criminal organizations in mobile phone networks. Expert Systems With Applications, 2014, 41, 5733-5750.	7.6	121
24	Crawling Facebook for social network analysis purposes. , 2011, , .		115
25	Political polarization drives online conversations about COVID-19 in the United States. Human Behavior and Emerging Technologies, 2020, 2, 200-211.	4.4	115
26	Mixing local and global information for community detection in large networks. Journal of Computer and System Sciences, 2014, 80, 72-87.	1.2	113
27	What types of COVID-19 conspiracies are populated by Twitter bots?. First Monday, 0, , .	0.6	109
28	A novel measure of edge centrality in social networks. Knowledge-Based Systems, 2012, 30, 136-150.	7.1	108
29	The Geospatial Characteristics of a Social Movement Communication Network. PLoS ONE, 2013, 8, e55957.	2.5	105
30	Misinformation, manipulation, and abuse on social media in the era of COVID-19. Journal of Computational Social Science, 2020, 3, 271-277.	2.4	98
31	Online popularity and topical interests through the lens of instagram. , 2014, , .		91
32	Predicting Online Extremism, Content Adopters, and Interaction Reciprocity. Lecture Notes in Computer Science, 2016, , 22-39.	1.3	84
33	Early detection of promoted campaigns on social media. EPJ Data Science, 2017, 6, .	2.8	82
34	Enhancing community detection using a network weighting strategy. Information Sciences, 2013, 222, 648-668.	6.9	81
35	Could Social Bots Pose a Threat to Public Health?. American Journal of Public Health, 2018, 108, 1005-1006.	2.7	73
36	Trust and Compactness in Social Network Groups. IEEE Transactions on Cybernetics, 2015, 45, 205-216.	9.5	69

#	ARTICLE	IF	CITATIONS
37	Evolution of online user behavior during a social upheaval. , 2014, , .		67
38	Contagion dynamics of extremist propaganda in social networks. Information Sciences, 2017, 418-419, 1-12.	6.9	63
39	Charting the Landscape of Online Cryptocurrency Manipulation. IEEE Access, 2020, 8, 113230-113245.	4.2	63
40	Gender Disparity in the Authorship of Biomedical Research Publications During the COVID-19 Pandemic: Retrospective Observational Study. Journal of Medical Internet Research, 2021, 23, e25379.	4.3	62
41	Who Falls for Online Political Manipulation?. , 2019, , .		61
42	Network structure and resilience of Mafia syndicates. Information Sciences, 2016, 351, 30-47.	6.9	60
43	A large-scale community structure analysis in Facebook. EPJ Data Science, 2012, 1, .	2.8	57
44	The Importance of Debiasing Social Media Data to Better Understand E-Cigarette-Related Attitudes and Behaviors. Journal of Medical Internet Research, 2016, 18, e219.	4.3	56
45	Early Warnings of Cyber Threats in Online Discussions. , 2017, , .		54
46	Red Bots Do It Better:Comparative Analysis of Social Bot Partisan Behavior. , 2019, , .		53
47	Characterizing social media manipulation in the 2020 U.S. presidential election. First Monday, 0, , .	0.6	49
48	The history of digital spam. Communications of the ACM, 2019, 62, 82-91.	4.5	46
49	"Manipulation and abuse on social media" by Emilio Ferrara with Ching-man Au Yeung as coordinator. SIGWEB Newsletter: the Newsletter of ACM's Special Interest Group on Hypertext and Hypermedia, 2015, 2015, 1-9.	0.6	44
50	Individual performance in team-based online games. Royal Society Open Science, 2018, 5, 180329.	2.4	44
51	Characterizing the 2016 Russian IRA influence campaign. Social Network Analysis and Mining, 2019, 9, 1.	2.8	43
52	COVID-19 misinformation and the 2020 U.S. presidential election. , 2021, , .		43
53	Community structure discovery in Facebook. International Journal of Social Network Mining, 2012, 1, 67.	0.2	42
54	Clustering memes in social media. , 2013, , .		42

#	ARTICLE	IF	CITATIONS
55	Disinformation and Social Bot Operations in the Run Up to the 2017 French Presidential Election. SSRN Electronic Journal, 0, , .	0.4	42
56	Non-Negative Tensor Factorization for Human Behavioral Pattern Mining in Online Games. Information (Switzerland), 2018, 9, 66.	2.9	42
57	Scientific impact evaluation and the effect of self-citations: Mitigating the bias by discounting the h-index. Journal of the Association for Information Science and Technology, 2013, 64, 2332-2339.	2.6	41
58	Traveling trends. , 2013, , .		38
59	Predicting Cyber-Events by Leveraging Hacker Sentiment. Information (Switzerland), 2018, 9, 280.	2.9	37
60	TILES-2018, a longitudinal physiologic and behavioral data set of hospital workers. Scientific Data, 2020, 7, 354.	5.3	36
61	#Election2020: the first public Twitter dataset on the 2020 US Presidential election. Journal of Computational Social Science, 2022, 5, 1-18.	2.4	35
62	Extraction and Analysis of Facebook Friendship Relations. , 2012, , 291-324.		34
63	Forensic analysis of phone call networks. Social Network Analysis and Mining, 2013, 3, 15-33.	2.8	34
64	DISCOVER. , 2018, , .		34
65	The rise of Jihadist propaganda on social networks. Journal of Computational Social Science, 2018, 1, 453-470.	2.4	33
66	Trust Networks: Topology, Dynamics, and Measurements. IEEE Internet Computing, 2015, 19, 26-35.	3.3	32
67	Measuring Social Spam and the Effect of Bots on Information Diffusion in Social Media. Computational Social Sciences, 2018, , 229-255.	0.4	32
68	Detecting cryptocurrency pump-and-dump frauds using market and social signals. Expert Systems With Applications, 2021, 182, 115284.	7.6	31
69	OSoMe: the IUNI observatory on social media. PeerJ Computer Science, 0, 2, e87.	4.5	31
70	Political Partisanship and Antiscience Attitudes in Online Discussions About COVID-19: Twitter Content Analysis. Journal of Medical Internet Research, 2021, 23, e26692.	4.3	30
71	Social Media Polarization and Echo Chambers in the Context of COVID-19: Case Study. Jmirx Med, 2021, 2, e29570.	0.4	29
72	Social Politics: Agenda Setting and Political Communication on Social Media. Lecture Notes in Computer Science, 2016, , 330-344.	1.3	28

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73	Analyzing user behavior across social sharing environments. ACM Transactions on Intelligent Systems and Technology, 2013, 5, 1-31.	4.5	27
74	Evidence of Online Performance Deterioration in User Sessions on Reddit. PLoS ONE, 2016, 11, e0161636.	2.5	27
75	Analysis of a Heterogeneous Social Network of Humans and Cultural Objects. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 559-570.	9.3	26
76	Style in the Age of Instagram. , 2016, , .		26
77	Perils and Challenges of Social Media and Election Manipulation Analysis: The 2018 US Midterms. , 2019, , .		25
78	Multimodal Human and Environmental Sensing for Longitudinal Behavioral Studies in Naturalistic Settings: Framework for Sensor Selection, Deployment, and Management. Journal of Medical Internet Research, 2019, 21, e12832.	4.3	25
79	Does Streaming Esports Affect Playersâ€™ Behavior and Performance?. Games and Culture, 2020, 15, 9-31.	2.8	24
80	Measuring Bot and Human Behavioral Dynamics. Frontiers in Physics, 2020, 8, .	2.1	24
81	Bots, Elections, and Social Media: A Brief Overview. Lecture Notes in Social Networks, 2020, , 95-114.	0.1	24
82	Quality versus quantity in scientific impact. Journal of Informetrics, 2015, 9, 800-808.	2.9	22
83	Capturing Edge Attributes via Network Embedding. IEEE Transactions on Computational Social Systems, 2018, 5, 907-917.	4.4	22
84	Characterizing Activity on the Deep and Dark Web. , 2019, , .		22
85	Identifying Coordinated Accounts on Social Media through Hidden Influence and Group Behaviours. , 2021, , .		22
86	Evolution of bot and human behavior during elections. First Monday, 0, , .	0.6	22
87	Auditing Algorithmic Bias on Twitter. , 2021, , .		21
88	Lessons Learned: Recommendations For Implementing a Longitudinal Study Using Wearable and Environmental Sensors in a Health Care Organization. JMIR MHealth and UHealth, 2019, 7, e13305.	3.7	21
89	Deep Neural Networks for Optimal Team Composition. Frontiers in Big Data, 2019, 2, 14.	2.9	20
90	Charting the Information and Misinformation Landscape to Characterize Misinfodemics on Social Media: COVID-19 Infodemiology Study at a Planetary Scale. JMIR Infodemiology, 2022, 2, e32378.	2.4	19

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91	Clustering memes in social media streams. <i>Social Network Analysis and Mining</i> , 2014, 4, 1.	2.8	18
92	XML Matchers: Approaches and challenges. <i>Knowledge-Based Systems</i> , 2014, 66, 190-209.	7.1	18
93	Discovering patterns of online popularity from time series. <i>Expert Systems With Applications</i> , 2020, 151, 113337.	7.6	18
94	Automatic Wrapper Adaptation by Tree Edit Distance Matching. <i>Smart Innovation, Systems and Technologies</i> , 2011, , 41-54.	0.6	17
95	Latent Space Model for Multi-Modal Social Data. , 2016, , .		15
96	Disrupting the COVID-19 Misinfodemic With Network Interventions: Network Solutions for Network Problems. <i>American Journal of Public Health</i> , 2021, 111, 514-519.	2.7	14
97	Understanding Cyberbullying on Instagram and Ask.fm via Social Role Detection. , 2019, , .		13
98	Comparative analysis of social bots and humans during the COVID-19 pandemic. <i>Journal of Computational Social Science</i> , 2022, 5, 1409-1425.	2.4	13
99	Network modularity controls the speed of information diffusion. <i>Physical Review E</i> , 2020, 102, 052316.	2.1	12
100	GEM: A Python package for graph embedding methods. <i>Journal of Open Source Software</i> , 2018, 3, 876.	4.6	11
101	Effective retrieval of resources in folksonomies using a new tag similarity measure. , 2011, , .		10
102	Parallel Clustering of High-Dimensional Social Media Data Streams. , 2015, , .		9
103	Estimating Individualized Daily Self-Reported Affect with Wearable Sensors. , 2019, , .		9
104	“Senator, We Sell Ads” Analysis of the 2016 Russian Facebook Ads Campaign. <i>Communications in Computer and Information Science</i> , 2019, , 151-168.	0.5	9
105	Mining and Forecasting Career Trajectories of Music Artists. , 2018, , .		8
106	Recommending Teammates with Deep Neural Networks. , 2018, , .		8
107	The impact of peer review on the contribution potential of scientific papers. <i>PeerJ</i> , 2021, 9, e11999.	2.0	8
108	On Predictability of Rare Events Leveraging Social Media. , 2015, , .		8

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109	Improving recommendation quality by merging collaborative filtering and social relationships. , 2011, , .		7
110	Performance Dynamics and Success in Online Games. , 2017, , .		7
111	The Rise of Jihadist Propaganda on Social Networks. SSRN Electronic Journal, 0, , .	0.4	7
112	Social Bots for Online Public Health Interventions. , 2018, , .		7
113	Topics of Nicotine-Related Discussions on Twitter: Infoveillance Study. Journal of Medical Internet Research, 2021, 23, e25579.	4.3	7
114	Language, demographics, emotions, and the structure of online social networks. Journal of Computational Social Science, 2018, 1, 209-225.	2.4	6
115	Embedding Networks with Edge Attributes. , 2018, , .		6
116	The Influence of Social Ties on Performance in Team-Based Online Games. IEEE Transactions on Games, 2021, 13, 358-367.	1.4	6
117	Predictability limit of partially observed systems. Scientific Reports, 2020, 10, 20427.	3.3	6
118	Affect Estimation with Wearable Sensors. Journal of Healthcare Informatics Research, 2020, 4, 261-294.	7.6	6
119	Digital Civic Participation and Misinformation during the 2020 Taiwanese Presidential Election. Media and Communication, 2021, 9, 144-157.	1.9	5
120	Having a Bad Day? Detecting the Impact of Atypical Events Using Wearable Sensors. Lecture Notes in Computer Science, 2021, , 257-267.	1.3	5
121	Adaptive search over sorted sets. Journal of Discrete Algorithms, 2015, 30, 128-133.	0.7	4
122	Discovering Latent Psychological Structures from Self-Report Assessments of Hospital Workers. , 2018, , .		4
123	The Wide, the Deep, and the Maverick. Proceedings of the ACM on Human-Computer Interaction, 2021, 5, 1-26.	3.3	4
124	Graph signal recovery using restricted Boltzmann machines. Expert Systems With Applications, 2021, 185, 115635.	7.6	4
125	User-Based Collaborative Filtering Mobile Health System. , 2020, 4, 1-17.		4
126	Learning Behavioral Representations from Wearable Sensors. Lecture Notes in Computer Science, 2020, , 245-254.	1.3	4

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127	Large-scale agent-based simulations of online social networks. <i>Autonomous Agents and Multi-Agent Systems</i> , 2022, 36, .	2.1	4
128	Collective behaviors and networks. <i>EPJ Data Science</i> , 2014, 3, .	2.8	3
129	Extracting the multi-timescale activity patterns of online financial markets. <i>Scientific Reports</i> , 2018, 8, 11184.	3.3	3
130	Measurement and Analysis of Online Social Networks Systems. , 2018, , 1297-1300.		3
131	Mitigating the Bias of Heterogeneous Human Behavior in Affective Computing. , 2021, , .		3
132	Toward computational crime prediction. <i>Physics of Life Reviews</i> , 2015, 12, 28-29.	2.8	2
133	Contagion Dynamics of Extremist Propaganda in Social Networks. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
134	SoReC: A Social-Relation Based Centrality Measure in Mobile Social Networks. , 2019, , .		2
135	Heterogeneous Effects of Software Patches in a Multiplayer Online Battle Arena Game. , 2021, , .		2
136	Rendering of 3D Dynamic Virtual Environments. , 2011, , .		2
137	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.	0.3	2
138	Measurement and Analysis of Online Social Networks Systems. , 2014, , 891-893.		2
139	Uncovering Criminal Behavior with Computational Tools. , 2015, , 177-207.		2
140	Detecting multi-timescale consumption patterns from receipt data: a non-negative tensor factorization approach. <i>Journal of Computational Social Science</i> , 2020, , 1.	2.4	1
141	Structural Node Embedding in Signed Social Networks: Finding Online Misbehavior at Multiple Scales. <i>Studies in Computational Intelligence</i> , 2021, , 3-14.	0.9	1
142	Finding Similar Users in Facebook. , 0, , 304-323.		1
143	Individualized Context-Aware Tensor Factorization for Online Games Predictions. , 2020, , .		1
144	Effects of Network Structure on Subjective Preference Diversity. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
145	Authors'™ Response to Peer Reviews of "Social Media Polarization and Echo Chambers in the Context of COVID-19: Case Study" Jmirx Med, 2021, 2, e32266.	0.4	0