

# 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	#Election2020: the first public Twitter dataset on the 2020 US Presidential election. Journal of Computational Social Science, 2022, 5, 1-18.	2.4	35
2	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
3	Large-scale agent-based simulations of online social networks. Autonomous Agents and Multi-Agent Systems, 2022, 36, .	2.1	4
4	Comparative analysis of social bots and humans during the COVID-19 pandemic. Journal of Computational Social Science, 2022, 5, 1409-1425.	2.4	13
5	The Influence of Social Ties on Performance in Team-Based Online Games. IEEE Transactions on Games, 2021, 13, 358-367.	1.4	6
6	Structural Node Embedding in Signed Social Networks: Finding Online Misbehavior at Multiple Scales. Studies in Computational Intelligence, 2021, , 3-14.	0.9	1
7	Digital Civic Participation and Misinformation during the 2020 Taiwanese Presidential Election. Media and Communication, 2021, 9, 144-157.	1.9	5
8	Disrupting the COVID-19 Misinfodemic With Network Interventions: Network Solutions for Network Problems. American Journal of Public Health, 2021, 111, 514-519.	2.7	14
9	COVID-19 misinformation and the 2020 U.S. presidential election. , 2021, , .		43
10	The Wide, the Deep, and the Maverick. Proceedings of the ACM on Human-Computer Interaction, 2021, 5, 1-26.	3.3	4
11	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
12	Topics of Nicotine-Related Discussions on Twitter: Infoveillance Study. Journal of Medical Internet Research, 2021, 23, e25579.	4.3	7
13	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
14	Auditing Algorithmic Bias on Twitter. , 2021, , .		21
15	Social Media Polarization and Echo Chambers in the Context of COVID-19: Case Study. Jmirx Med, 2021, 2, e29570.	0.4	29
16	Identifying Coordinated Accounts on Social Media through Hidden Influence and Group Behaviours. , 2021, , .		22
17	Authorsâ€™ Response to Peer Reviews of â€œSocial Media Polarization and Echo Chambers in the Context of COVID-19: Case Studyâ€. Jmirx Med, 2021, 2, e32266.	0.4	0
18	The impact of peer review on the contribution potential of scientific papers. PeerJ, 2021, 9, e11999.	2.0	8

#	ARTICLE	IF	CITATIONS
19	Detecting cryptocurrency pump-and-dump frauds using market and social signals. Expert Systems With Applications, 2021, 182, 115284.	7.6	31
20	Graph signal recovery using restricted Boltzmann machines. Expert Systems With Applications, 2021, 185, 115635.	7.6	4
21	Having a Bad Day? Detecting the Impact of Atypical Events Using Wearable Sensors. Lecture Notes in Computer Science, 2021, , 257-267.	1.3	5
22	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
23	Heterogeneous Effects of Software Patches in a Multiplayer Online Battle Arena Game. , 2021, , .		2
24	Mitigating the Bias of Heterogeneous Human Behavior in Affective Computing. , 2021, , .		3
25	Does Streaming Esports Affect Playersâ€™ Behavior and Performance?. Games and Culture, 2020, 15, 9-31.	2.8	24
26	Charting the Landscape of Online Cryptocurrency Manipulation. IEEE Access, 2020, 8, 113230-113245.	4.2	63
27	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
28	TILES-2018, a longitudinal physiologic and behavioral data set of hospital workers. Scientific Data, 2020, 7, 354.	5.3	36
29	Detecting multi-timescale consumption patterns from receipt data: a non-negative tensor factorization approach. Journal of Computational Social Science, 2020, , 1.	2.4	1
30	Predictability limit of partially observed systems. Scientific Reports, 2020, 10, 20427.	3.3	6
31	Measuring Bot and Human Behavioral Dynamics. Frontiers in Physics, 2020, 8, .	2.1	24
32	Political polarization drives online conversations about COVID-19 in the United States. Human Behavior and Emerging Technologies, 2020, 2, 200-211.	4.4	115
33	Affect Estimation with Wearable Sensors. Journal of Healthcare Informatics Research, 2020, 4, 261-294.	7.6	6
34	Discovering patterns of online popularity from time series. Expert Systems With Applications, 2020, 151, 113337.	7.6	18
35	Bots, Elections, and Social Media: A Brief Overview. Lecture Notes in Social Networks, 2020, , 95-114.	0.1	24
36	Network modularity controls the speed of information diffusion. Physical Review E, 2020, 102, 052316.	2.1	12

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37	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
38	User-Based Collaborative Filtering Mobile Health System. , 2020, 4, 1-17.		4
39	Learning Behavioral Representations from Wearable Sensors. Lecture Notes in Computer Science, 2020, , 245-254.	1.3	4
40	Individualized Context-Aware Tensor Factorization for Online Games Predictions. , 2020, , .		1
41	Who Falls for Online Political Manipulation?. , 2019, , .		61
42	Characterizing the 2016 Russian IRA influence campaign. Social Network Analysis and Mining, 2019, 9, 1.	2.8	43
43	The history of digital spam. Communications of the ACM, 2019, 62, 82-91.	4.5	46
44	SoReC: A Social-Relation Based Centrality Measure in Mobile Social Networks. , 2019, , .		2
45	Perils and Challenges of Social Media and Election Manipulation Analysis: The 2018 US Midterms. , 2019, , .		25
46	Red Bots Do It Better:Comparative Analysis of Social Bot Partisan Behavior. , 2019, , .		53
47	Characterizing Activity on the Deep and Dark Web. , 2019, , .		22
48	Understanding Cyberbullying on Instagram and Ask.fm via Social Role Detection. , 2019, , .		13
49	Arming the public with artificial intelligence to counter social bots. Human Behavior and Emerging Technologies, 2019, 1, 48-61.	4.4	238
50	Estimating Individualized Daily Self-Reported Affect with Wearable Sensors. , 2019, , .		9
51	Effects of Network Structure on Subjective Preference Diversity. , 2019, , .		0
52	Deep Neural Networks for Optimal Team Composition. Frontiers in Big Data, 2019, 2, 14.	2.9	20
53	“Senator, We Sell Ads” Analysis of the 2016 Russian Facebook Ads Campaign. Communications in Computer and Information Science, 2019, , 151-168.	0.5	9
54	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

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55	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
56	The rise of Jihadist propaganda on social networks. Journal of Computational Social Science, 2018, 1, 453-470.	2.4	33
57	Graph embedding techniques, applications, and performance: A survey. Knowledge-Based Systems, 2018, 151, 78-94.	7.1	1,159
58	Language, demographics, emotions, and the structure of online social networks. Journal of Computational Social Science, 2018, 1, 209-225.	2.4	6
59	Predicting Cyber-Events by Leveraging Hacker Sentiment. Information (Switzerland), 2018, 9, 280.	2.9	37
60	Discovering Latent Psychological Structures from Self-Report Assessments of Hospital Workers. , 2018, , .		4
61	Capturing Edge Attributes via Network Embedding. IEEE Transactions on Computational Social Systems, 2018, 5, 907-917.	4.4	22
62	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
63	Mining and Forecasting Career Trajectories of Music Artists. , 2018, , .		8
64	Analyzing the Digital Traces of Political Manipulation: The 2016 Russian Interference Twitter Campaign. , 2018, , .		159
65	Social Bots for Online Public Health Interventions. , 2018, , .		7
66	Extracting the multi-timescale activity patterns of online financial markets. Scientific Reports, 2018, 8, 11184.	3.3	3
67	Recommending Teammates with Deep Neural Networks. , 2018, , .		8
68	Measuring Social Spam and the Effect of Bots on Information Diffusion in Social Media. Computational Social Sciences, 2018, , 229-255.	0.4	32
69	Embedding Networks with Edge Attributes. , 2018, , .		6
70	Non-Negative Tensor Factorization for Human Behavioral Pattern Mining in Online Games. Information (Switzerland), 2018, 9, 66.	2.9	42
71	Could Social Bots Pose a Threat to Public Health?. American Journal of Public Health, 2018, 108, 1005-1006.	2.7	73
72	Deep neural networks for bot detection. Information Sciences, 2018, 467, 312-322.	6.9	286

#	ARTICLE	IF	CITATIONS
73	Individual performance in team-based online games. Royal Society Open Science, 2018, 5, 180329.	2.4	44
74	DISCOVER. , 2018, , .		34
75	Measurement and Analysis of Online Social Networks Systems. , 2018, , 1297-1300.		3
76	GEM: A Python package for graph embedding methods. Journal of Open Source Software, 2018, 3, 876.	4.6	11
77	Contagion dynamics of extremist propaganda in social networks. Information Sciences, 2017, 418-419, 1-12.	6.9	63
78	Early Warnings of Cyber Threats in Online Discussions. , 2017, , .		54
79	Performance Dynamics and Success in Online Games. , 2017, , .		7
80	Early detection of promoted campaigns on social media. EPJ Data Science, 2017, 6, .	2.8	82
81	Evidence of complex contagion of information in social media: An experiment using Twitter bots. PLoS ONE, 2017, 12, e0184148.	2.5	225
82	E-Cigarette Surveillance With Social Media Data: Social Bots, Emerging Topics, and Trends. JMIR Public Health and Surveillance, 2017, 3, e98.	2.6	122
83	Evidence of Online Performance Deterioration in User Sessions on Reddit. PLoS ONE, 2016, 11, e0161636.	2.5	27
84	The DARPA Twitter Bot Challenge. Computer, 2016, 49, 38-46.	1.1	277
85	Latent Space Model for Multi-Modal Social Data. , 2016, , .		15
86	Style in the Age of Instagram. , 2016, , .		26
87	BotOrNot. , 2016, , .		510
88	Predicting Online Extremism, Content Adopters, and Interaction Reciprocity. Lecture Notes in Computer Science, 2016, , 22-39.	1.3	84
89	Social Politics: Agenda Setting and Political Communication on Social Media. Lecture Notes in Computer Science, 2016, , 330-344.	1.3	28
90	The rise of social bots. Communications of the ACM, 2016, 59, 96-104.	4.5	1,263

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91	Network structure and resilience of Mafia syndicates. Information Sciences, 2016, 351, 30-47.	6.9	60
92	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
93	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
94	Trust and Compactness in Social Network Groups. IEEE Transactions on Cybernetics, 2015, 45, 205-216.	9.5	69
95	"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
96	Trust Networks: Topology, Dynamics, and Measurements. IEEE Internet Computing, 2015, 19, 26-35.	3.3	32
97	Adaptive search over sorted sets. Journal of Discrete Algorithms, 2015, 30, 128-133.	0.7	4
98	Toward computational crime prediction. Physics of Life Reviews, 2015, 12, 28-29.	2.8	2
99	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
100	Quality versus quantity in scientific impact. Journal of Informetrics, 2015, 9, 800-808.	2.9	22
101	Parallel Clustering of High-Dimensional Social Media Data Streams. , 2015, , .		9
102	On Predictability of Rare Events Leveraging Social Media. , 2015, , .		8
103	Measuring Emotional Contagion in Social Media. PLoS ONE, 2015, 10, e0142390.	2.5	294
104	Uncovering Criminal Behavior with Computational Tools. , 2015, , 177-207.		2
105	Collective behaviors and networks. EPJ Data Science, 2014, 3, .	2.8	3
106	On Facebook, most ties are weak. Communications of the ACM, 2014, 57, 78-84.	4.5	125
107	Evolution of online user behavior during a social upheaval. , 2014, , .		67
108	Clustering memes in social media streams. Social Network Analysis and Mining, 2014, 4, 1.	2.8	18

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109	Detecting criminal organizations in mobile phone networks. Expert Systems With Applications, 2014, 41, 5733-5750.	7.6	121
110	Mixing local and global information for community detection in large networks. Journal of Computer and System Sciences, 2014, 80, 72-87.	1.2	113
111	Online popularity and topical interests through the lens of instagram. , 2014, , .		91
112	Web data extraction, applications and techniques: A survey. Knowledge-Based Systems, 2014, 70, 301-323.	7.1	247
113	Optimal Network Modularity for Information Diffusion. Physical Review Letters, 2014, 113, 088701.	7.8	213
114	XML Matchers: Approaches and challenges. Knowledge-Based Systems, 2014, 66, 190-209.	7.1	18
115	Measurement and Analysis of Online Social Networks Systems. , 2014, , 891-893.		2
116	Forensic analysis of phone call networks. Social Network Analysis and Mining, 2013, 3, 15-33.	2.8	34
117	Enhancing community detection using a network weighting strategy. Information Sciences, 2013, 222, 648-668.	6.9	81
118	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
119	Analyzing user behavior across social sharing environments. ACM Transactions on Intelligent Systems and Technology, 2013, 5, 1-31.	4.5	27
120	Clustering memes in social media. , 2013, , .		42
121	The Geospatial Characteristics of a Social Movement Communication Network. PLoS ONE, 2013, 8, e55957.	2.5	105
122	The Digital Evolution of Occupy Wall Street. PLoS ONE, 2013, 8, e64679.	2.5	132
123	Traveling trends. , 2013, , .		38
124	Extraction and Analysis of Facebook Friendship Relations. , 2012, , 291-324.		34
125	Community structure discovery in Facebook. International Journal of Social Network Mining, 2012, 1, 67.	0.2	42
126	A large-scale community structure analysis in Facebook. EPJ Data Science, 2012, 1, .	2.8	57



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127	A novel measure of edge centrality in social networks. Knowledge-Based Systems, 2012, 30, 136-150.	7.1	108
128	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
129	Generalized Louvain method for community detection in large networks. , 2011, , .		169
130	Crawling Facebook for social network analysis purposes. , 2011, , .		115
131	Improving recommendation quality by merging collaborative filtering and social relationships. , 2011, , .		7
132	Effective retrieval of resources in folksonomies using a new tag similarity measure. , 2011, , .		10
133	Automatic Wrapper Adaptation by Tree Edit Distance Matching. Smart Innovation, Systems and Technologies, 2011, , 41-54.	0.6	17
134	Rendering of 3D Dynamic Virtual Environments. , 2011, , .		2
135	Disinformation and Social Bot Operations in the Run Up to the 2017 French Presidential Election. SSRN Electronic Journal, 0, , .	0.4	42
136	Contagion Dynamics of Extremist Propaganda in Social Networks. SSRN Electronic Journal, 0, , .	0.4	2
137	The Rise of Jihadist Propaganda on Social Networks. SSRN Electronic Journal, 0, , .	0.4	7
138	Social bots distort the 2016 U.S. Presidential election online discussion. First Monday, 0, , .	0.6	398
139	Disinformation and social bot operations in the run up to the 2017 French presidential election. First Monday, 0, , .	0.6	172
140	Evolution of bot and human behavior during elections. First Monday, 0, , .	0.6	22
141	Characterizing social media manipulation in the 2020 U.S. presidential election. First Monday, 0, , .	0.6	49
142	What types of COVID-19 conspiracies are populated by Twitter bots?. First Monday, 0, , .	0.6	109
143	Quantifying the effect of sentiment on information diffusion in social media. PeerJ Computer Science, 0, 1, e26.	4.5	139
144	OSoMe: the IUNI observatory on social media. PeerJ Computer Science, 0, 2, e87.	4.5	31

#	ARTICLE	IF	CITATIONS
145	Finding Similar Users in Facebook. , 0, , 304-323.		1