

Kristina Lerman

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.

108
papers

3,071
citations

28
h-index

53
g-index

117
ext. papers

4,132
ext. citations

3.5
avg, IF

6.17
L-index

#	Paper	IF	Citations
108	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
107	The DARPA Twitter Bot Challenge. <i>Computer</i> , 2016 , 49, 38-46	1.6	198
106	A Survey on Bias and Fairness in Machine Learning. <i>ACM Computing Surveys</i> , 2021 , 54, 1-35	13.4	183
105	Using a model of social dynamics to predict popularity of news 2010 ,		137
104	Distributed online localization in sensor networks using a moving target 2004 ,		124
103	The simple rules of social contagion. <i>Scientific Reports</i> , 2014 , 4, 4343	4.9	113
102	Mathematical Model of Foraging in a Group of Robots: Effect of Interference. <i>Autonomous Robots</i> , 2002 , 13, 127-141	3	109
101	Analyzing the Digital Traces of Political Manipulation: The 2016 Russian Interference Twitter Campaign 2018 ,		108
100	The "Majority Illusion" in Social Networks. <i>PLoS ONE</i> , 2016 , 11, e0147617	3.7	99
99	Social Information Processing in News Aggregation. <i>IEEE Internet Computing</i> , 2007 , 11, 16-28	2.4	94
98	A macroscopic analytical model of collaboration in distributed robotic systems. <i>Artificial Life</i> , 2001 , 7, 375-93	1.4	90
97	How Visibility and Divided Attention Constrain Social Contagion 2012 ,		80
96	Social dynamics of Digg. <i>EPJ Data Science</i> , 2012 , 1,	3.4	69
95	A Review of Probabilistic Macroscopic Models for Swarm Robotic Systems. <i>Lecture Notes in Computer Science</i> , 2005 , 143-152	0.9	65
94	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
93	Top-down vs bottom-up methodologies in multi-agent system design. <i>Autonomous Robots</i> , 2008 , 24, 303-313	3	56
92	Experiments on three systems with non-variational aspects. <i>Physica D: Nonlinear Phenomena</i> , 1992 , 61, 77-93	3.3	51

91	Analysis of social voting patterns on digg 2008 ,		50
90	Centrality metric for dynamic networks 2010 ,		46
89	Leveraging position bias to improve peer recommendation. <i>PLoS ONE</i> , 2014 , 9, e98914	3.7	45
88	Transient localized states in 2D binary liquid convection. <i>Physical Review Letters</i> , 1993 , 70, 3572-3575	7.4	44
87	Resource Allocation in the Grid with Learning Agents. <i>Journal of Grid Computing</i> , 2005 , 3, 91-100	4.2	42
86	Information Is Not a Virus, and Other Consequences of Human Cognitive Limits. <i>Future Internet</i> , 2016 , 8, 21	3.3	36
85	Constructing folksonomies from user-specified relations on flickr 2009 ,		32
84	The Role of Social Media in the Discussion of Controversial Topics 2013 ,		29
83	Portrait of an Online Shopper 2016 ,		29
82	Parameterized centrality metric for network analysis. <i>Physical Review E</i> , 2011 , 83, 066118	2.4	28
81	Adaptive Boolean networks and minority games with time-dependent capacities. <i>Physical Review E</i> , 2002 , 66, 015103	2.4	23
80	Characterizing the 2016 Russian IRA influence campaign. <i>Social Network Analysis and Mining</i> , 2019 , 9, 1	2.2	22
79	User Participation in Social Media: Digg Study 2007 ,		22
78	Time-Aware Ranking in Dynamic Citation Networks 2011 ,		21
77	Evidence of Online Performance Deterioration in User Sessions on Reddit. <i>PLoS ONE</i> , 2016 , 11, e0161636	3.7	21
76	Travel analytics: Understanding how destination choice and business clusters are connected based on social media data. <i>Transportation Research Part C: Emerging Technologies</i> , 2017 , 77, 245-256	8.4	20
75	Rethinking centrality: The role of dynamical processes in social network analysis. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2014 , 19, 1355-1372	1.3	20
74	Predicting Cyber-Events by Leveraging Hacker Sentiment. <i>Information (Switzerland)</i> , 2018 , 9, 280	2.6	20

73	Different convection dynamics in mixtures with the same separation ratio. <i>Physical Review E</i> , 1996 , 53, R2041-R2044	2.4	19
72	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
71	Individual performance in team-based online games. <i>Royal Society Open Science</i> , 2018 , 5, 180329	3.3	18
70	Identifying Sentiment of Hookah-Related Posts on Twitter. <i>JMIR Public Health and Surveillance</i> , 2017 , 3, e74	11.4	18
69	Accurately and Reliably Extracting Data from the Web: A Machine Learning Approach. <i>Studies in Fuzziness and Soft Computing</i> , 2003 , 275-287	0.7	17
68	How the structure of Wikipedia articles influences user navigation. <i>New Review of Hypermedia and Multimedia</i> , 2017 , 23, 29-50	0.8	15
67	The myopia of crowds: Cognitive load and collective evaluation of answers on Stack Exchange. <i>PLoS ONE</i> , 2017 , 12, e0173610	3.7	15
66	The interplay between dynamics and networks 2014 ,		15
65	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
64	Automatically Constructing Semantic Web Services from Online Sources. <i>Lecture Notes in Computer Science</i> , 2009 , 17-32	0.9	15
63	COVID-19 misinformation and the 2020 U.S. presidential election 2021 ,		14
62	Semantic Labeling of Online Information Sources. <i>International Journal on Semantic Web and Information Systems</i> , 2007 , 3, 36-56	1.4	13
61	Friendship paradox biases perceptions in directed networks. <i>Nature Communications</i> , 2020 , 11, 707	17.4	12
60	Computational social scientist beware: Simpson's paradox in behavioral data. <i>Journal of Computational Social Science</i> , 2018 , 1, 49-58	3	12
59	Network structure, topology, and dynamics in generalized models of synchronization. <i>Physical Review E</i> , 2012 , 86, 026108	2.4	12
58	Using Stochastic Models to Describe and Predict Social Dynamics of Web Users. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2012 , 3, 1-33	8	12
57	Structural Properties of Ego Networks. <i>Lecture Notes in Computer Science</i> , 2015 , 55-64	0.9	12
56	TILES-2018, a longitudinal physiologic and behavioral data set of hospital workers. <i>Scientific Data</i> , 2020 , 7, 354	8.2	12

55	Geography of Emotion 2016 ,			11
54	Spectral clustering with epidemic diffusion. <i>Physical Review E</i> , 2013 , 88, 042813	2.4		11
53	Analysis of transients for binary mixture convection in cylindrical geometry. <i>Physical Review E</i> , 1999 , 59, 2975-2985	2.4		11
52	Can you Trust the Trend? 2018 ,			10
51	Taming the Unpredictability of Cultural Markets with Social Influence 2017 ,			10
50	Graph Filters and the Z-Laplacian. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2017 , 11, 774-784	7.5		10
49	A Model of Adaptation in Collaborative Multi-Agent Systems. <i>Adaptive Behavior</i> , 2004 , 12, 187-197	1.1		10
48	LA-LDA: A Limited Attention Topic Model for Social Recommendation. <i>Lecture Notes in Computer Science</i> , 2013 , 211-220	0.9		9
47	Auditing Algorithmic Bias on Twitter 2021 ,			9
46	Design and Mathematical Analysis of Agent-Based Systems. <i>Lecture Notes in Computer Science</i> , 2001 , 222-234	0.9		9
45	Attention and visibility in an information-rich world 2013 ,			8
44	A probabilistic approach for learning folksonomies from structured data 2011 ,			7
43	Dynamics of collaborative document rating systems 2007 ,			7
42	Disentangling the Effects of Social Signals. <i>Human Computation</i> , 2016 , 2,	1		7
41	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
40	Understanding Short-term Changes in Online Activity Sessions 2017 ,			6
39	Neighbor-Neighbor Correlations Explain Measurement Bias in Networks. <i>Scientific Reports</i> , 2017 , 7, 5576	4.9		6
38	Modeling Social Annotation. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2010 , 5, 1-32	4		6

37	Capturing the interplay of dynamics and networks through parameterizations of Laplacian operators. <i>PeerJ Computer Science</i> , 2, e57	2.7	6
36	Effort Mediates Access to Information in Online Social Networks. <i>ACM Transactions on the Web</i> , 2017, 11, 1-19	3.2	5
35	Dynamics of a Collaborative Rating System. <i>Lecture Notes in Computer Science</i> , 2009, 77-96	0.9	5
34	2019,		5
33	Two Paradigms for the Design of Artificial Collectives 2004, 231-256		5
32	Social Informatics: Using Big Data to Understand Social Behavior 2013, 751-759		5
31	VIP: Incorporating Human Cognitive Biases in a Probabilistic Model of Retweeting. <i>Lecture Notes in Computer Science</i> , 2015, 101-110	0.9	4
30	The Myopia of Crowds: A Study of Collective Evaluation on Stack Exchange. <i>SSRN Electronic Journal</i> , 2016,	1	4
29	Language, demographics, emotions, and the structure of online social networks. <i>Journal of Computational Social Science</i> , 2018, 1, 209-225	3	4
28	Discovering Latent Psychological Structures from Self-Report Assessments of Hospital Workers 2018,		4
27	BD2K ERuDIte 2017,		3
26	Assessing the Navigational Effects of Click Biases and Link Insertion on the Web 2016,		3
25	Predicting and explaining behavioral data with structured feature space decomposition. <i>EPJ Data Science</i> , 2019, 8,	3.4	3
24	Analysis of a Stochastic Model of Adaptive Task Allocation in Robots. <i>Lecture Notes in Computer Science</i> , 2005, 167-179	0.9	3
23	Unequal impact and spatial aggregation distort COVID-19 growth rates. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210122	3	3
22	A Systematic Approach to Model-Guided Empirical Search for Memory Hierarchy Optimization. <i>Lecture Notes in Computer Science</i> , 2006, 433-440	0.9	3
21	BD2K Training Coordinating Center's ERuDIte: the Educational Resource Discovery Index for Data Science.. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2021, 9, 316-328	4.1	3
20	The transortative structure of networks. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20190772	2.4	2

19	Affect Estimation with Wearable Sensors.. <i>Journal of Healthcare Informatics Research</i> , 2020 , 4, 261-294	4	2
18	Mining social semantics on the social web. <i>Semantic Web</i> , 2017 , 8, 623-624	2.4	2
17	Using Stochastic Models to Predict User Response in Social Media 2013 ,		2
16	Mining Geospatial Knowledge on the Social Web. <i>International Journal of Information Systems for Crisis Response and Management</i> , 2011 , 3, 33-47	0.6	2
15	A probabilistic approach to mining geospatial knowledge from social annotations. <i>SIGSPATIAL Special</i> , 2012 , 4, 2-7	2.3	2
14	Challenges in Forecasting Malicious Events from Incomplete Data 2020 ,		2
13	Learning Behavioral Representations from Wearable Sensors. <i>Lecture Notes in Computer Science</i> , 2020 , 245-254	0.9	2
12	Political Partisanship and Antiscience Attitudes in Online Discussions About COVID-19: Twitter Content Analysis (Preprint)		2
11	Predictability limit of partially observed systems. <i>Scientific Reports</i> , 2020 , 10, 20427	4.9	2
10	Socioeconomic Correlates of Anti-Science Attitudes in the US. <i>Future Internet</i> , 2021 , 13, 160	3.3	2
9	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
8	Tracking Social Media Discourse About the COVID-19 Pandemic: Development of a Public Coronavirus Twitter Data Set (Preprint)		1
7	Gender Disparity in the Authorship of Biomedical Research Publications During the COVID-19 Pandemic: Retrospective Observational Study (Preprint)		1
6	Lessons Learned: Recommendations For Implementing a Longitudinal Study Using Wearable and Environmental Sensors in a Health Care Organization (Preprint)		1
5	User-Based Collaborative Filtering Mobile Health System 2020 , 4, 1-17		1
4	Road network evolution in the urban and rural United States since 1900. <i>Computers, Environment and Urban Systems</i> , 2022 , 95, 101803	5.9	1
3	The Impact of Network Flows on Community Formation in Models of Opinion Dynamics. <i>Journal of Mathematical Sociology</i> , 2015 , 39, 109-124	1.2	0
2	Mining Geospatial Knowledge on the Social Web 2013 , 98-112		

1 Model of cognitive dynamics predicts performance on standardized tests. *Journal of Computational Social Science*, **2018**, 1, 295-312

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