Kristina Lerman

List of Publications by Year in Descending Order

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	Unequal impact and spatial aggregation distort COVID-19 growth rates. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2022**, 380, 20210122	3	3
107	Road network evolution in the urban and rural United States since 1900. *Computers, Environment and Urban Systems*, **2022**, 95, 101803	5.9	1
106	COVID-19 misinformation and the 2020 U.S. presidential election **2021**,		14
105	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	7.6	19
104	Socioeconomic Correlates of Anti-Science Attitudes in the US. *Future Internet*, **2021**, 13, 160	3.3	2
103	Political Partisanship and Antiscience Attitudes in Online Discussions About COVID-19: Twitter Content Analysis. *Journal of Medical Internet Research*, **2021**, 23, e26692	7.6	7
102	Auditing Algorithmic Bias on Twitter **2021**,		9
101	BD2K Training Coordinating Center's ERuDIte: the Educational Resource Discovery Index for Data Science.. *IEEE Transactions on Emerging Topics in Computing*, **2021**, 9, 316-328	4.1	3
100	A Survey on Bias and Fairness in Machine Learning. *ACM Computing Surveys*, **2021**, 54, 1-35	13.4	183
99	Having a Bad Day? Detecting the Impact of Atypical Events Using Wearable Sensors. *Lecture Notes in Computer Science*, **2021**, 257-267	0.9	2
98	The transsortative structure of networks. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2020**, 476, 20190772	2.4	2
97	Political Polarization Drives Online Conversations About COVID-19 in the United States. *Human Behavior and Emerging Technologies*, **2020**, 2, 200	10.2	56
96	Affect Estimation with Wearable Sensors.. *Journal of Healthcare Informatics Research*, **2020**, 4, 261-294	4	2
95	Friendship paradox biases perceptions in directed networks. *Nature Communications*, **2020**, 11, 707	17.4	12
94	Challenges in Forecasting Malicious Events from Incomplete Data **2020**,		2
93	Learning Behavioral Representations from Wearable Sensors. *Lecture Notes in Computer Science*, **2020**, 245-254	0.9	2
92	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	11.4	229

91	User-Based Collaborative Filtering Mobile Health System **2020**, 4, 1-17		1
90	TILES-2018, a longitudinal physiologic and behavioral data set of hospital workers. *Scientific Data*, **2020**, 7, 354	8.2	12
89	Predictability limit of partially observed systems. *Scientific Reports*, **2020**, 10, 20427	4.9	2
88	Predicting and explaining behavioral data with structured feature space decomposition. *EPJ Data Science*, **2019**, 8,	3.4	3
87	Characterizing the 2016 Russian IRA influence campaign. *Social Network Analysis and Mining*, **2019**, 9, 1	2.2	22
86	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	5.5	15
85	**2019**,		5
84	Computational social scientist beware: Simpson paradox in behavioral data. *Journal of Computational Social Science*, **2018**, 1, 49-58	3	12
83	Can you Trust the Trend? **2018**,		10
82	Individual performance in team-based online games. *Royal Society Open Science*, **2018**, 5, 180329	3.3	18
81	Language, demographics, emotions, and the structure of online social networks. *Journal of Computational Social Science*, **2018**, 1, 209-225	3	4
80	Predicting Cyber-Events by Leveraging Hacker Sentiment. *Information (Switzerland)*, **2018**, 9, 280	2.6	20
79	Discovering Latent Psychological Structures from Self-Report Assessments of Hospital Workers **2018**,		4
78	Analyzing the Digital Traces of Political Manipulation: The 2016 Russian Interference Twitter Campaign **2018**,		108
77	Model of cognitive dynamics predicts performance on standardized tests. *Journal of Computational Social Science*, **2018**, 1, 295-312	3	
76	How the structure of Wikipedia articles influences user navigation. *New Review of Hypermedia and Multimedia*, **2017**, 23, 29-50	0.8	15
75	Travel analytics: Understanding how destination choice and business clusters are connected based on social media data. *Transportation Research Part C: Emerging Technologies*, **2017**, 77, 245-256	8.4	20
74	Understanding Short-term Changes in Online Activity Sessions **2017**,		6

73	Effort Mediates Access to Information in Online Social Networks. *ACM Transactions on the Web*, **2017**, 11, 1-19	3.2	5
72	The myopia of crowds: Cognitive load and collective evaluation of answers on Stack Exchange. *PLoS ONE*, **2017**, 12, e0173610	3.7	15
71	BD2K ERuDIte **2017**,		3
70	Taming the Unpredictability of Cultural Markets with Social Influence **2017**,		10
69	Neighbor-Neighbor Correlations Explain Measurement Bias in Networks. *Scientific Reports*, **2017**, 7, 5576	4.9	6
68	Graph Filters and the Z-Laplacian. *IEEE Journal on Selected Topics in Signal Processing*, **2017**, 11, 774-784	7.5	10
67	Mining social semantics on the social web. *Semantic Web*, **2017**, 8, 623-624	2.4	2
66	Identifying Sentiment of Hookah-Related Posts on Twitter. *JMIR Public Health and Surveillance*, **2017**, 3, e74	11.4	18
65	Assessing the Navigational Effects of Click Biases and Link Insertion on the Web **2016**,		3
64	Geography of Emotion **2016**,		11
63	The "Majority Illusion" in Social Networks. *PLoS ONE*, **2016**, 11, e0147617	3.7	99
62	Disentangling the Effects of Social Signals. *Human Computation*, **2016**, 2,	1	7
61	The Myopia of Crowds: A Study of Collective Evaluation on Stack Exchange. *SSRN Electronic Journal*, **2016**,	1	4
60	Information Is Not a Virus, and Other Consequences of Human Cognitive Limits. *Future Internet*, **2016**, 8, 21	3.3	36
59	Evidence of Online Performance Deterioration in User Sessions on Reddit. *PLoS ONE*, **2016**, 11, e0161636	3.7	21
58	The DARPA Twitter Bot Challenge. *Computer*, **2016**, 49, 38-46	1.6	198
57	Portrait of an Online Shopper **2016**,		29
56	The Impact of Network Flows on Community Formation in Models of Opinion Dynamics. *Journal of Mathematical Sociology*, **2015**, 39, 109-124	1.2	0

55	VIP: Incorporating Human Cognitive Biases in a Probabilistic Model of Retweeting. *Lecture Notes in Computer Science*, **2015**, 101-110	0.9	4
54	Structural Properties of Ego Networks. *Lecture Notes in Computer Science*, **2015**, 55-64	0.9	12
53	The simple rules of social contagion. *Scientific Reports*, **2014**, 4, 4343	4.9	113
52	The interplay between dynamics and networks **2014**,		15
51	Leveraging position bias to improve peer recommendation. *PLoS ONE*, **2014**, 9, e98914	3.7	45
50	Rethinking centrality: The role of dynamical processes in social network analysis. *Discrete and Continuous Dynamical Systems - Series B*, **2014**, 19, 1355-1372	1.3	20
49	Attention and visibility in an information-rich world **2013**,		8
48	The Role of Social Media in the Discussion of Controversial Topics **2013**,		29
47	Using Stochastic Models to Predict User Response in Social Media **2013**,		2
46	Spectral clustering with epidemic diffusion. *Physical Review E*, **2013**, 88, 042813	2.4	11
45	LA-LDA: A Limited Attention Topic Model for Social Recommendation. *Lecture Notes in Computer Science*, **2013**, 211-220	0.9	9
44	Mining Geospatial Knowledge on the Social Web **2013**, 98-112		
43	Social Informatics: Using Big Data to Understand Social Behavior **2013**, 751-759		5
42	Network structure, topology, and dynamics in generalized models of synchronization. *Physical Review E*, **2012**, 86, 026108	2.4	12
41	How Visibility and Divided Attention Constrain Social Contagion **2012**,		80
40	Social dynamics of Digg. *EPJ Data Science*, **2012**, 1,	3.4	69
39	Using Stochastic Models to Describe and Predict Social Dynamics of Web Users. *ACM Transactions on Intelligent Systems and Technology*, **2012**, 3, 1-33	8	12
38	A probabilistic approach to mining geospatial knowledge from social annotations. *SIGSPATIAL Special*, **2012**, 4, 2-7	2.3	2

37	Mining Geospatial Knowledge on the Social Web. *International Journal of Information Systems for Crisis Response and Management*, **2011**, 3, 33-47	0.6	2
36	Time-Aware Ranking in Dynamic Citation Networks **2011**,		21
35	A probabilistic approach for learning folksonomies from structured data **2011**,		7
34	Parameterized centrality metric for network analysis. *Physical Review E*, **2011**, 83, 066118	2.4	28
33	Modeling Social Annotation. *ACM Transactions on Knowledge Discovery From Data*, **2010**, 5, 1-32	4	6
32	Using a model of social dynamics to predict popularity of news **2010**,		137
31	Centrality metric for dynamic networks **2010**,		46
30	Constructing folksonomies from user-specified relations on flickr **2009**,		32
29	Dynamics of a Collaborative Rating System. *Lecture Notes in Computer Science*, **2009**, 77-96	0.9	5
28	Automatically Constructing Semantic Web Services from Online Sources. *Lecture Notes in Computer Science*, **2009**, 17-32	0.9	15
27	Analysis of social voting patterns on digg **2008**,		50
26	Top-down vs bottom-up methodologies in multi-agent system design. *Autonomous Robots*, **2008**, 24, 303-313	3	56
25	Semantic Labeling of Online Information Sources. *International Journal on Semantic Web and Information Systems*, **2007**, 3, 36-56	1.4	13
24	Dynamics of collaborative document rating systems **2007**,		7
23	Social Information Processing in News Aggregation. *IEEE Internet Computing*, **2007**, 11, 16-28	2.4	94
22	User Participation in Social Media: Digg Study **2007**,		22
21	A Systematic Approach to Model-Guided Empirical Search for Memory Hierarchy Optimization. *Lecture Notes in Computer Science*, **2006**, 433-440	0.9	3
20	Resource Allocation in the Grid with Learning Agents. *Journal of Grid Computing*, **2005**, 3, 91-100	4.2	42

19	Analysis of a Stochastic Model of Adaptive Task Allocation in Robots. *Lecture Notes in Computer Science*, **2005**, 167-179	0.9	3
18	A Review of Probabilistic Macroscopic Models for Swarm Robotic Systems. *Lecture Notes in Computer Science*, **2005**, 143-152	0.9	65
17	Distributed online localization in sensor networks using a moving target **2004**,		124
16	A Model of Adaptation in Collaborative Multi-Agent Systems. *Adaptive Behavior*, **2004**, 12, 187-197	1.1	10
15	Two Paradigms for the Design of Artificial Collectives **2004**, 231-256		5
14	Accurately and Reliably Extracting Data from the Web: A Machine Learning Approach. *Studies in Fuzziness and Soft Computing*, **2003**, 275-287	0.7	17
13	Mathematical Model of Foraging in a Group of Robots: Effect of Interference. *Autonomous Robots*, **2002**, 13, 127-141	3	109
12	Adaptive Boolean networks and minority games with time-dependent capacities. *Physical Review E*, **2002**, 66, 015103	2.4	23
11	A macroscopic analytical model of collaboration in distributed robotic systems. *Artificial Life*, **2001**, 7, 375-93	1.4	90
10	Design and Mathematical Analysis of Agent-Based Systems. *Lecture Notes in Computer Science*, **2001**, 222-234	0.9	9
9	Analysis of transients for binary mixture convection in cylindrical geometry. *Physical Review E*, **1999** , 59, 2975-2985	2.4	11
8	Different convection dynamics in mixtures with the same separation ratio. *Physical Review E*, **1996**, 53, R2041-R2044	2.4	19
7	Transient localized states in 2D binary liquid convection. *Physical Review Letters*, **1993**, 70, 3572-3575	7.4	44
6	Experiments on three systems with non-variational aspects. *Physica D: Nonlinear Phenomena*, **1992**, 61, 77-93	3.3	51
5	Tracking Social Media Discourse About the COVID-19 Pandemic: Development of a Public Coronavirus Twitter Data Set (Preprint)		1
4	Gender Disparity in the Authorship of Biomedical Research Publications During the COVID-19 Pandemic: Retrospective Observational Study (Preprint)		1
3	Political Partisanship and Antiscience Attitudes in Online Discussions About COVID-19: Twitter Content Analysis (Preprint)		2
2	Capturing the interplay of dynamics and networks through parameterizations of Laplacian operators. *PeerJ Computer Science*,2, e57	2.7	6