

# Jure Leskovec

## List of Publications by Year in descending order

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Version: 2024-02-01

171  
papers

47,716  
citations

81900

39  
h-index

123424

61  
g-index

188  
all docs

188  
docs citations

188  
times ranked

25710  
citing authors

#	ARTICLE	IF	CITATIONS
1	node2vec. , 2016, 2016, 855-864.		6,341
2	Friendship and mobility. , 2011, , .		1,964
3	Graph evolution. ACM Transactions on Knowledge Discovery From Data, 2007, 1, 2.	3.5	1,808
4	Graph Convolutional Neural Networks for Web-Scale Recommender Systems. , 2018, , .		1,716
5	Cost-effective outbreak detection in networks. , 2007, , .		1,646
6	Graphs over time. , 2005, , .		1,461
7	The dynamics of viral marketing. ACM Transactions on the Web, 2007, 1, 5.	2.5	1,294
8	Community Structure in Large Networks: Natural Cluster Sizes and the Absence of Large Well-Defined Clusters. Internet Mathematics, 2009, 6, 29-123.	0.7	1,246
9	Mobility network models of COVID-19 explain inequities and inform reopening. Nature, 2021, 589, 82-87.	27.8	1,016
10	Hidden factors and hidden topics. , 2013, , .		996
11	Predicting positive and negative links in online social networks. , 2010, , .		995
12	Meme-tracking and the dynamics of the news cycle. , 2009, , .		964
13	Defining and evaluating network communities based on ground-truth. Knowledge and Information Systems, 2015, 42, 181-213.	3.2	913
14	Signed networks in social media. , 2010, , .		850
15	Sampling from large graphs. , 2006, , .		756
16	Modeling polypharmacy side effects with graph convolutional networks. Bioinformatics, 2018, 34, i457-i466.	4.1	741
17	Higher-order organization of complex networks. Science, 2016, 353, 163-166.	12.6	708
18	Supervised random walks. , 2011, , .		685

#	ARTICLE	IF	CITATIONS
19	Large-scale physical activity data reveal worldwide activity inequality. Nature, 2017, 547, 336-339.	27.8	675
20	Empirical comparison of algorithms for network community detection. , 2010, , .		654
21	Patterns of temporal variation in online media. , 2011, , .		634
22	SNAP. ACM Transactions on Intelligent Systems and Technology, 2017, 8, 1-20.	4.5	612
23	Statistical properties of community structure in large social and information networks. , 2008, , .		559
24	Overlapping community detection at scale. , 2013, , .		547
25	Community Detection in Networks with Node Attributes. , 2013, , .		511
26	Microscopic evolution of social networks. , 2008, , .		506
27	Can cascades be predicted?. , 2014, , .		483
28	The Battle of the Water Sensor Networks (BWSN): A Design Challenge for Engineers and Algorithms. Journal of Water Resources Planning and Management - ASCE, 2008, 134, 556-568.	2.6	464
29	Inferring networks of diffusion and influence. , 2010, , .		454
30	Inferring Networks of Substitutable and Complementary Products. , 2015, , .		407
31	Patterns of Cascading Behavior in Large Blog Graphs. , 2007, , .		403
32	Planetary-scale views on a large instant-messaging network. , 2008, , .		400
33	Modeling Information Diffusion in Implicit Networks. , 2010, , .		382
34	SEISMIC. , 2015, , .		364
35	Motifs in Temporal Networks. , 2017, , .		361
36	Interpretable Decision Sets. , 2016, 2016, 1675-1684.		357

#	ARTICLE	IF	CITATIONS
37	Information diffusion and external influence in networks. , 2012, , .		353
38	Machine learning for integrating data in biology and medicine: Principles, practice, and opportunities. Information Fusion, 2019, 50, 71-91.	19.1	340
39	Local Higher-Order Graph Clustering. , 2017, 2017, 555-564.		311
40	Engaging with massive online courses. , 2014, , .		307
41	Predicting multicellular function through multi-layer tissue networks. Bioinformatics, 2017, 33, i190-i198.	4.1	304
42	Efficient Sensor Placement Optimization for Securing Large Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2008, 134, 516-526.	2.6	298
43	Inferring Networks of Diffusion and Influence. ACM Transactions on Knowledge Discovery From Data, 2012, 5, 1-37.	3.5	297
44	Fly Cell Atlas: A single-nucleus transcriptomic atlas of the adult fruit fly. Science, 2022, 375, eabk2432.	12.6	295
45	Predicting Dynamic Embedding Trajectory in Temporal Interaction Networks. , 2019, 2019, 1269-1278.		282
46	Anyone Can Become a Troll. , 2017, 2017, 1217-1230.		278
47	From amateurs to connoisseurs. , 2013, , .		268
48	Defining and evaluating network communities based on ground-truth. , 2012, , .		257
49	Discovering value from community activity on focused question answering sites. , 2012, , .		249
50	Discovering social circles in ego networks. ACM Transactions on Knowledge Discovery From Data, 2014, 8, 1-28.	3.5	240
51	The dynamics of viral marketing. , 2006, , .		233
52	No country for old members. , 2013, , .		223
53	Inducing Domain-Specific Sentiment Lexicons from Unlabeled Corpora. , 2016, 2016, 595-605.		222
54	Human Decisions and Machine Predictions*. Quarterly Journal of Economics, 2018, 133, 237-293.	8.6	207

#	ARTICLE	IF	CITATIONS
55	Learning Structural Node Embeddings via Diffusion Wavelets. , 2018, , .		200
56	Community-Affiliation Graph Model for Overlapping Network Community Detection. , 2012, , .		190
57	Large-scale Analysis of Counseling Conversations: An Application of Natural Language Processing to Mental Health. Transactions of the Association for Computational Linguistics, 2016, 4, 463-476.	4.8	167
58	Defining and Evaluating Network Communities Based on Ground-Truth. , 2012, , .		162
59	Structure and dynamics of information pathways in online media. , 2013, , .		161
60	Community Interaction and Conflict on the Web. , 2018, , .		161
61	Network Lasso. , 2015, 2015, 387-396.		155
62	Uncovering the structure and temporal dynamics of information propagation. Network Science, 2014, 2, 26-65.	1.0	150
63	Scalable modeling of real graphs using Kronecker multiplication. , 2007, , .		144
64	An algorithmic approach to reducing unexplained pain disparities in underserved populations. Nature Medicine, 2021, 27, 136-140.	30.7	143
65	Measurement error in network data: A re-classification. Social Networks, 2012, 34, 396-409.	2.1	137
66	The life and death of online groups. , 2012, , .		133
67	The bursty dynamics of the Twitter information network. , 2014, , .		133
68	Faithful and Customizable Explanations of Black Box Models. , 2019, , .		126
69	To Embed or Not: Network Embedding as a Paradigm in Computational Biology. Frontiers in Genetics, 2019, 10, 381.	2.3	123
70	Clash of the Contagions: Cooperation and Competition in Information Diffusion. , 2012, , .		122
71	Mining big data to extract patterns and predict real-life outcomes.. Psychological Methods, 2016, 21, 493-506.	3.5	120
72	Learning Attitudes and Attributes from Multi-aspect Reviews. , 2012, , .		118

#	ARTICLE	IF	CITATIONS
73	Overlapping Communities Explain Core-Periphery Organization of Networks. Proceedings of the IEEE, 2014, 102, 1892-1902.	21.3	114
74	Exploiting Social Network Structure for Person-to-Person Sentiment Analysis. Transactions of the Association for Computational Linguistics, 2014, 2, 297-310.	4.8	110
75	The role of social networks in online shopping. , 2011, , .		108
76	Best practices for analyzing large-scale health data from wearables and smartphone apps. Npj Digital Medicine, 2019, 2, 45.	10.9	108
77	Network Inference via the Time-Varying Graphical Lasso. , 2017, 2017, 205-213.		107
78	Cultural Shift or Linguistic Drift? Comparing Two Computational Measures of Semantic Change. , 2016, 2016, 2116-2121.		107
79	The Network Completion Problem: Inferring Missing Nodes and Edges in Networks. , 2011, , .		106
80	Online Actions with Offline Impact. , 2017, 2017, 537-546.		106
81	Human wayfinding in information networks. , 2012, , .		105
82	Pixie. , 2018, , .		99
83	Multiplicative Attribute Graph Model of Real-World Networks. Internet Mathematics, 2012, 8, 113-160.	0.7	96
84	HADI. ACM Transactions on Knowledge Discovery From Data, 2011, 5, 1-24.	3.5	93
85	Image Labeling on a Network: Using Social-Network Metadata for Image Classification. Lecture Notes in Computer Science, 2012, , 828-841.	1.3	92
86	MARS: discovering novel cell types across heterogeneous single-cell experiments. Nature Methods, 2020, 17, 1200-1206.	19.0	90
87	Accurate Influenza Monitoring and Forecasting Using Novel Internet Data Streams: A Case Study in the Boston Metropolis. JMIR Public Health and Surveillance, 2018, 4, e4.	2.6	85
88	Network enhancement as a general method to denoise weighted biological networks. Nature Communications, 2018, 9, 3108.	12.8	82
89	Effects of user similarity in social media. , 2012, , .		78
90	Driver identification using automobile sensor data from a single turn. , 2016, , .		78

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91	Correcting for missing data in information cascades. , 2011, , .		77
92	Evolution of resilience in protein interactomes across the tree of life. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4426-4433.	7.1	75
93	Do Cascades Recur?. , 2016, , .		74
94	Donor Retention in Online Crowdfunding Communities. , 2015, 2015, 34-44.		73
95	Identification of disease treatment mechanisms through the multiscale interactome. Nature Communications, 2021, 12, 1796.	12.8	72
96	Single-cell transcriptomes of developing and adult olfactory receptor neurons in Drosophila. ELife, 2021, 10, .	6.0	71
97	Structure and Overlaps of Ground-Truth Communities in Networks. ACM Transactions on Intelligent Systems and Technology, 2014, 5, 1-35.	4.5	70
98	Information cartography. , 2013, , .		68
99	Higher-order clustering in networks. Physical Review E, 2018, 97, 052306.	2.1	66
100	Data-Driven Model Predictive Control of Autonomous Mobility-on-Demand Systems. , 2018, , .		65
101	Why We Read Wikipedia. , 2017, , .		64
102	Social media analytics. , 2011, , .		59
103	Understanding Behaviors that Lead to Purchasing. , 2016, , .		58
104	Tensor Spectral Clustering for Partitioning Higher-order Network Structures. , 2015, 2015, 118-126.		57
105	The Selective Labels Problem. , 2017, 2017, 275-284.		57
106	Detecting cohesive and 2-mode communities in directed and undirected networks. , 2014, , .		55
107	Inferring Person-to-person Proximity Using WiFi Signals. , 2017, 1, 1-20.		55
108	Dynamics of bidding in a P2P lending service. , 2011, , .		54

#	ARTICLE	IF	CITATIONS
109	GNNExplainer: Generating Explanations for Graph Neural Networks. <i>Advances in Neural Information Processing Systems</i> , 2019, 32, 9240-9251.	2.8	53
110	How Gamification Affects Physical Activity. , 2017, 2017, 455-463.		49
111	Citing for high impact. , 2010, , .		46
112	Monitoring Network Evolution using MDL. , 2008, , .		43
113	Global Diffusion via Cascading Invitations. , 2015, , .		43
114	Finding progression stages in time-evolving event sequences. , 2014, , .		41
115	Mining Missing Hyperlinks from Human Navigation Traces. , 2015, 2015, 1242-1252.		40
116	Large-scale analysis of disease pathways in the human interactome. , 2018, , .		40
117	QUOTUS. , 2015, , .		39
118	Large-scale Analysis of Counseling Conversations: An Application of Natural Language Processing to Mental Health. <i>Transactions of the Association for Computational Linguistics</i> , 2016, 4, 463-476.	4.8	39
119	Prioritizing network communities. <i>Nature Communications</i> , 2018, 9, 2544.	12.8	37
120	The Local Closure Coefficient. , 2019, , .		33
121	Data association for topic intensity tracking. , 2006, , .		32
122	Multiplicative Attribute Graph Model of Real-World Networks. <i>Lecture Notes in Computer Science</i> , 2010, , 62-73.	1.3	32
123	Maximally selective single-cell target for circuit control in epilepsy models. <i>Neuron</i> , 2021, 109, 2556-2572.e6.	8.1	31
124	Large-scale diet tracking data reveal disparate associations between food environment and diet. <i>Nature Communications</i> , 2022, 13, 267.	12.8	31
125	Temporal evolution of single-cell transcriptomes of <i>Drosophila</i> olfactory projection neurons. <i>ELife</i> , 2021, 10, .	6.0	30
126	Improving Website Hyperlink Structure Using Server Logs. , 2016, 2016, 615-624.		30



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127	Web projections. , 2007, , .		29
128	NIFTY. , 2013, , .		27
129	Information cartography. Communications of the ACM, 2015, 58, 62-73.	4.5	26
130	Modeling Interdependent and Periodic Real-World Action Sequences. , 2018, 2018, 803-812.		26
131	Goal-setting And Achievement In Activity Tracking Apps: A Case Study Of MyFitnessPal. , 2019, 2019, 571-582.		26
132	The mobilize center: an NIH big data to knowledge center to advance human movement research and improve mobility. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1120-1125.	4.4	24
133	Modeling Individual Cyclic Variation in Human Behavior. , 2018, 2018, 107-116.		24
134	Antisocial Behavior on the Web. , 2017, , .		23
135	Predicting Intent Using Activity Logs. , 2017, , .		21
136	Drive2Vec: Multiscale State-Space Embedding of Vehicular Sensor Data. , 2018, , .		21
137	Daily, weekly, seasonal and menstrual cycles in womenâ€™s mood, behaviour and vital signs. Nature Human Behaviour, 2021, 5, 716-725.	12.0	21
138	Leveraging the Cell Ontology to classify unseen cell types. Nature Communications, 2021, 12, 5556.	12.8	21
139	The last click. , 2014, , .		20
140	Ringo. , 2015, 2015, 1105-1110.		20
141	Large-scale analysis of disease pathways in the human interactome. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2018, 23, 111-122.	0.7	20
142	Predicting pregnancy using large-scale data from a women's health tracking mobile application. , 2019, 2019, 2999-3005.		19
143	Seeing the forest for the trees. , 2016, , .		18
144	I'll Be Back. , 2018, 2018, 1501-1511.		16

#	ARTICLE	IF	CITATIONS
145	Supporting COVID-19 Policy Response with Large-scale Mobility-based Modeling. , 2021, , .		16
146	F-FADE: Frequency Factorization for Anomaly Detection in Edge Streams. , 2021, , .		15
147	Optimizing Sensor Placements in Water Distribution Systems Using Submodular Function Maximization. , 2008, , .		14
148	Geospatial Structure of a Planetary-Scale Social Network. IEEE Transactions on Computational Social Systems, 2014, 1, 156-163.	4.4	14
149	Network analysis: a novel method for mapping neonatal acute transport patterns in California. Journal of Perinatology, 2017, 37, 702-708.	2.0	13
150	Expanding Taxonomies with Implicit Edge Semantics. , 2020, , .		12
151	Gender Differences in Patient Perceptions of Physicians' Communal Traits and the Impact on Physician Evaluations. Journal of Women's Health, 2021, 30, 551-556.	3.3	11
152	Postmortem memory of public figures in news and social media. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
153	Analyzing Information Seeking and Drug-Safety Alert Response by Health Care Professionals as New Methods for Surveillance. Journal of Medical Internet Research, 2015, 17, e204.	4.3	9
154	Hyperbolic Graph Convolutional Neural Networks. Advances in Neural Information Processing Systems, 2019, 32, 4869-4880.	2.8	9
155	Networks, communities and kronecker products. , 2009, , .		7
156	Modeling Affinity based Popularity Dynamics. , 2017, , .		7
157	Guest Editorial: Non-Euclidean Machine Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 723-726.	13.9	7
158	Understanding Online Collection Growth Over Time. , 2017, , .		6
159	MIS2. , 2018, , .		6
160	TEDIC: Neural Modeling of Behavioral Patterns in Dynamic Social Interaction Networks. , 2021, , .		6
161	Anyone Can Become a Troll. American Scientist, 2017, 105, 152.	0.1	6
162	The Download Estimation task on KDD Cup 2003. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2003, 5, 160-162.	4.0	5

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163	Status and friendship. , 2014, , .		4
164	Companies under stress: the impact of shocks on the production network. EPJ Data Science, 2021, 10, 57.	2.8	3
165	Human navigation in networks. , 2012, , .		2
166	Large Scale Network Analytics with SNAP. , 2015, , .		1
167	Categorizing User Sessions at Pinterest. , 2019, , .		1
168	SnapVX: A Network-Based Convex Optimization Solver. Journal of Machine Learning Research, 2017, 18, 110-114.	62.4	1
169	Visualizing information networks. AI Matters, 2014, 1, 23-24.	0.4	0
170	SIGKDD Impact Program 2018. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2019, 21, 36-37.	4.0	0
171	G2SAT: Learning to Generate SAT Formulas. Advances in Neural Information Processing Systems, 2019, 32, 10552-10563.	2.8	0