Jure Leskovec

List of Publications by Year in descending order

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171 papers	47,716 citations	93792 39 h-index	139680 61 g-index
188 all docs	188 docs citations	188 times ranked	28868 citing authors

#	Article	IF	Citations
1	Guest Editorial: Non-Euclidean Machine Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 723-726.	9.7	7
2	Large-scale diet tracking data reveal disparate associations between food environment and diet. Nature Communications, 2022, 13, 267.	5.8	31
3	Fly Cell Atlas: A single-nucleus transcriptomic atlas of the adult fruit fly. Science, 2022, 375, eabk2432.	6.0	295
4	Mobility network models of COVID-19 explain inequities and inform reopening. Nature, 2021, 589, 82-87.	13.7	1,016
5	Gender Differences in Patient Perceptions of Physicians' Communal Traits and the Impact on Physician Evaluations. Journal of Women's Health, 2021, 30, 551-556.	1.5	11
6	An algorithmic approach to reducing unexplained pain disparities in underserved populations. Nature Medicine, 2021, 27, 136-140.	15.2	143
7	Temporal evolution of single-cell transcriptomes of Drosophila olfactory projection neurons. ELife, 2021, 10, .	2.8	30
8	Single-cell transcriptomes of developing and adult olfactory receptor neurons in Drosophila. ELife, 2021, 10, .	2.8	71
9	Daily, weekly, seasonal and menstrual cycles in womenâ€™s mood, behaviour and vital signs. Nature Human Behaviour, 2021, 5, 716-725.	6.2	21
10	F-FADE: Frequency Factorization for Anomaly Detection in Edge Streams. , 2021, , .		15
11	Identification of disease treatment mechanisms through the multiscale interactome. Nature Communications, 2021, 12, 1796.	5.8	72
12	TEDIC: Neural Modeling of Behavioral Patterns in Dynamic Social Interaction Networks. , 2021, , .		6
13	Supporting COVID-19 Policy Response with Large-scale Mobility-based Modeling. , 2021, , .		16
14	Maximally selective single-cell target for circuit control in epilepsy models. Neuron, 2021, 109, 2556-2572.e6.	3.8	31
15	Leveraging the Cell Ontology to classify unseen cell types. Nature Communications, 2021, 12, 5556.	5.8	21
16	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, .	3.3	10
17	Companies under stress: the impact of shocks on the production network. EPJ Data Science, 2021, 10, 57.	1.5	3
18	MARS: discovering novel cell types across heterogeneous single-cell experiments. Nature Methods, 2020, 17, 1200-1206.	9.0	90

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19	Expanding Taxonomies with Implicit Edge Semantics. , 2020, , .		12
20	Best practices for analyzing large-scale health data from wearables and smartphone apps. Npj Digital Medicine, 2019, 2, 45.	5.7	108
21	Predicting Dynamic Embedding Trajectory in Temporal Interaction Networks. , 2019, 2019, 1269-1278.		282
22	Goal-setting And Achievement In Activity Tracking Apps: A Case Study Of MyFitnessPal. , 2019, 2019, 571-582.		26
23	Faithful and Customizable Explanations of Black Box Models. , 2019, , .		126
24	Predicting pregnancy using large-scale data from a women's health tracking mobile application. , 2019, 2019, 2999-3005.		19
25	To Embed or Not: Network Embedding as a Paradigm in Computational Biology. Frontiers in Genetics, 2019, 10, 381.	1.1	123
26	Categorizing User Sessions at Pinterest. , 2019, , .		1
27	The Local Closure Coefficient. , 2019, , .		33
28	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.	3.3	75
29	Machine learning for integrating data in biology and medicine: Principles, practice, and opportunities. Information Fusion, 2019, 50, 71-91.	11.7	340
30	SIGKDD Impact Program 2018. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2019, 21, 36-37.	3.2	0
31	Hyperbolic Graph Convolutional Neural Networks. Advances in Neural Information Processing Systems, 2019, 32, 4869-4880.	2.8	9
32	G2SAT: Learning to Generate SAT Formulas. Advances in Neural Information Processing Systems, 2019, 32, 10552-10563.	2.8	0
33	GNNExplainer: Generating Explanations for Graph Neural Networks. Advances in Neural Information Processing Systems, 2019, 32, 9240-9251.	2.8	53
34	Human Decisions and Machine Predictions*. Quarterly Journal of Economics, 2018, 133, 237-293.	3.8	207
35	MIS2. , 2018, , .		6
36	Modeling Interdependent and Periodic Real-World Action Sequences. , 2018, 2018, 803-812.		26

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37	Drive2Vec: Multiscale State-Space Embedding of Vehicular Sensor Data. , 2018, , .		21
38	Data-Driven Model Predictive Control of Autonomous Mobility-on-Demand Systems. , 2018, , .		65
39	Higher-order clustering in networks. Physical Review E, 2018, 97, 052306.	0.8	66
40	Pixie. , 2018, , .		99
41	Modeling Individual Cyclic Variation in Human Behavior. , 2018, 2018, 107-116.		24
42	Modeling polypharmacy side effects with graph convolutional networks. Bioinformatics, 2018, 34, i457-i466.	1.8	741
43	Prioritizing network communities. Nature Communications, 2018, 9, 2544.	5.8	37
44	I'll Be Back. , 2018, 2018, 1501-1511.		16
45	Community Interaction and Conflict on the Web. , 2018, , .		161
46	Graph Convolutional Neural Networks for Web-Scale Recommender Systems. , 2018, , .		1,716
47	Large-scale analysis of disease pathways in the human interactome. , 2018, , .		40
48	Learning Structural Node Embeddings via Diffusion Wavelets. , 2018, , .		200
49	Network enhancement as a general method to denoise weighted biological networks. Nature Communications, 2018, 9, 3108.	5.8	82
50	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.	1.2	85
51	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
52	SNAP. ACM Transactions on Intelligent Systems and Technology, 2017, 8, 1-20.	2.9	612
53	Online Actions with Offline Impact. , 2017, 2017, 537-546.		106
54	Anyone Can Become a Troll. , 2017, 2017, 1217-1230.		278

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55	Motifs in Temporal Networks. , 2017, , .		361
56	Why We Read Wikipedia. , 2017, , .		64
57	Antisocial Behavior on the Web. , 2017, , .		23
58	Predicting Intent Using Activity Logs. , 2017, , .		21
59	Network analysis: a novel method for mapping neonatal acute transport patterns in California. Journal of Perinatology, 2017, 37, 702-708.	0.9	13
60	How Gamification Affects Physical Activity. , 2017, 2017, 455-463.		49
61	Local Higher-Order Graph Clustering. , 2017, 2017, 555-564.		311
62	Predicting multicellular function through multi-layer tissue networks. Bioinformatics, 2017, 33, i190-i198.	1.8	304
63	Large-scale physical activity data reveal worldwide activity inequality. Nature, 2017, 547, 336-339.	13.7	675
64	Inferring Person-to-person Proximity Using WiFi Signals. , 2017, 1, 1-20.		55
65	Modeling Affinity based Popularity Dynamics. , 2017, , .		7
66	Understanding Online Collection Growth Over Time. , 2017, , .		6
67	Network Inference via the Time-Varying Graphical Lasso. , 2017, 2017, 205-213.		107
68	The Selective Labels Problem. , 2017, 2017, 275-284.		57
69	Anyone Can Become a Troll. American Scientist, 2017, 105, 152.	0.1	6
70	SnapVX: A Network-Based Convex Optimization Solver. Journal of Machine Learning Research, 2017, 18, 110-114.	62.4	1
71	Inducing Domain-Specific Sentiment Lexicons from Unlabeled Corpora. , 2016, 2016, 595-605.		222
72	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.	3.2	167

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73	Seeing the forest for the trees. , 2016, , .		18
74	Higher-order organization of complex networks. Science, 2016, 353, 163-166.	6.0	708
75	Driver identification using automobile sensor data from a single turn. , 2016, , .		78
76	Mining big data to extract patterns and predict real-life outcomes.. Psychological Methods, 2016, 21, 493-506.	2.7	120
77	Do Cascades Recur?. , 2016, , .		74
78	Understanding Behaviors that Lead to Purchasing. , 2016, , .		58
79	node2vec. , 2016, 2016, 855-864.		6,341
80	Interpretable Decision Sets. , 2016, 2016, 1675-1684.		357
81	Improving Website Hyperlink Structure Using Server Logs. , 2016, 2016, 615-624.		30
82	Cultural Shift or Linguistic Drift? Comparing Two Computational Measures of Semantic Change. , 2016, 2016, 2116-2121.		107
83	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.	3.2	39
84	Donor Retention in Online Crowdfunding Communities. , 2015, 2015, 34-44.		73
85	Tensor Spectral Clustering for Partitioning Higher-order Network Structures. , 2015, 2015, 118-126.		57
86	Mining Missing Hyperlinks from Human Navigation Traces. , 2015, 2015, 1242-1252.		40
87	Large Scale Network Analytics with SNAP. , 2015, , .		1
88	QUOTUS. , 2015, , .		39
89	Global Diffusion via Cascading Invitations. , 2015, , .		43
90	SEISMIC. , 2015, , .		364

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91	Network Lasso. , 2015, 2015, 387-396.		155
92	Information cartography. Communications of the ACM, 2015, 58, 62-73.	3.3	26
93	Ringo. , 2015, 2015, 1105-1110.		20
94	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.	2.2	24
95	Inferring Networks of Substitutable and Complementary Products. , 2015, , .		407
96	Defining and evaluating network communities based on ground-truth. Knowledge and Information Systems, 2015, 42, 181-213.	2.1	913
97	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.	2.1	9
98	Exploiting Social Network Structure for Person-to-Person Sentiment Analysis. Transactions of the Association for Computational Linguistics, 2014, 2, 297-310.	3.2	110
99	Can cascades be predicted?. , 2014, , .		483
100	The last click. , 2014, , .		20
101	Detecting cohesive and 2-mode communities indirected and undirected networks. , 2014, , .		55
102	The bursty dynamics of the Twitter information network. , 2014, , .		133
103	Finding progression stages in time-evolving event sequences. , 2014, , .		41
104	Overlapping Communities Explain Coreâ€“Periphery Organization of Networks. Proceedings of the IEEE, 2014, 102, 1892-1902.	16.4	114
105	Uncovering the structure and temporal dynamics of information propagation. Network Science, 2014, 2, 26-65.	0.8	150
106	Visualizing information networks. AI Matters, 2014, 1, 23-24.	0.4	0
107	Geospatial Structure of a Planetary-Scale Social Network. IEEE Transactions on Computational Social Systems, 2014, 1, 156-163.	3.2	14
108	Discovering social circles in ego networks. ACM Transactions on Knowledge Discovery From Data, 2014, 8, 1-28.	2.5	240

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109	Structure and Overlaps of Ground-Truth Communities in Networks. ACM Transactions on Intelligent Systems and Technology, 2014, 5, 1-35.	2.9	70
110	Engaging with massive online courses. , 2014, , .		307
111	Status and friendship. , 2014, , .		4
112	Structure and dynamics of information pathways in online media. , 2013, , .		161
113	Overlapping community detection at scale. , 2013, , .		547
114	Information cartography. , 2013, , .		68
115	Community Detection in Networks with Node Attributes. , 2013, , .		511
116	Hidden factors and hidden topics. , 2013, , .		996
117	NIFTY. , 2013, , .		27
118	From amateurs to connoisseurs. , 2013, , .		268
119	No country for old members. , 2013, , .		223
120	The life and death of online groups. , 2012, , .		133
121	Human wayfinding in information networks. , 2012, , .		105
122	Human navigation in networks. , 2012, , .		2
123	Defining and evaluating network communities based on ground-truth. , 2012, , .		257
124	Multiplicative Attribute Graph Model of Real-World Networks. Internet Mathematics, 2012, 8, 113-160.	0.7	96
125	Defining and Evaluating Network Communities Based on Ground-Truth. , 2012, , .		162
126	Effects of user similarity in social media. , 2012, , .		78

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127	Discovering value from community activity on focused question answering sites. , 2012, , .		249
128	Inferring Networks of Diffusion and Influence. ACM Transactions on Knowledge Discovery From Data, 2012, 5, 1-37.	2.5	297
129	Measurement error in network data: A re-classification. Social Networks, 2012, 34, 396-409.	1.3	137
130	Clash of the Contagions: Cooperation and Competition in Information Diffusion. , 2012, , .		122
131	Learning Attitudes and Attributes from Multi-aspect Reviews. , 2012, , .		118
132	Information diffusion and external influence in networks. , 2012, , .		353
133	Community-Affiliation Graph Model for Overlapping Network Community Detection. , 2012, , .		190
134	Image Labeling on a Network: Using Social-Network Metadata for Image Classification. Lecture Notes in Computer Science, 2012, , 828-841.	1.0	92
135	Friendship and mobility. , 2011, , .		1,964
136	Dynamics of bidding in a P2P lending service. , 2011, , .		54
137	Social media analytics. , 2011, , .		59
138	Patterns of temporal variation in online media. , 2011, , .		634
139	Supervised random walks. , 2011, , .		685
140	The role of social networks in online shopping. , 2011, , .		108
141	The Network Completion Problem: Inferring Missing Nodes and Edges in Networks. , 2011, , .		106
142	Correcting for missing data in information cascades. , 2011, , .		77
143	HADI. ACM Transactions on Knowledge Discovery From Data, 2011, 5, 1-24.	2.5	93
144	Signed networks in social media. , 2010, , .		850

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145	Multiplicative Attribute Graph Model of Real-World Networks. Lecture Notes in Computer Science, 2010, , 62-73.	1.0	32
146	Citing for high impact. , 2010, , .		46
147	Modeling Information Diffusion in Implicit Networks. , 2010, , .		382
148	Inferring networks of diffusion and influence. , 2010, , .		454
149	Predicting positive and negative links in online social networks. , 2010, , .		995
150	Empirical comparison of algorithms for network community detection. , 2010, , .		654
151	Networks, communities and kronecker products. , 2009, , .		7
152	Meme-tracking and the dynamics of the news cycle. , 2009, , .		964
153	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
154	Statistical properties of community structure in large social and information networks. , 2008, , .		559
155	Efficient Sensor Placement Optimization for Securing Large Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2008, 134, 516-526.	1.3	298
156	Monitoring Network Evolution using MDL. , 2008, , .		43
157	Microscopic evolution of social networks. , 2008, , .		506
158	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.	1.3	464
159	Planetary-scale views on a large instant-messaging network. , 2008, , .		400
160	Optimizing Sensor Placements in Water Distribution Systems Using Submodular Function Maximization. , 2008, , .		14
161	Web projections. , 2007, , .		29
162	Scalable modeling of real graphs using Kronecker multiplication. , 2007, , .		144

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163	Patterns of Cascading Behavior in Large Blog Graphs. , 2007, , .		403
164	Cost-effective outbreak detection in networks. , 2007, , .		1,646
165	Graph evolution. ACM Transactions on Knowledge Discovery From Data, 2007, 1, 2.	2.5	1,808
166	The dynamics of viral marketing. ACM Transactions on the Web, 2007, 1, 5.	2.0	1,294
167	Sampling from large graphs. , 2006, , .		756
168	The dynamics of viral marketing. , 2006, , .		233
169	Data association for topic intensity tracking. , 2006, , .		32
170	Graphs over time. , 2005, , .		1,461
171	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.	3.2	5