

Sune Lehmann

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

5,370
citations

159358

30
h-index

102304

66
g-index

89
all docs

89
docs citations

89
times ranked

5566
citing authors

#	ARTICLE	IF	CITATIONS
1	Link communities reveal multiscale complexity in networks. <i>Nature</i> , 2010, 466, 761-764.	13.7	1,534
2	Mobile phone data for informing public health actions across the COVID-19 pandemic life cycle. <i>Science Advances</i> , 2020, 6, eabc0764.	4.7	439
3	Measuring Large-Scale Social Networks with High Resolution. <i>PLoS ONE</i> , 2014, 9, e95978.	1.1	286
4	Measures for measures. <i>Nature</i> , 2006, 444, 1003-1004.	13.7	232
5	Evidence of complex contagion of information in social media: An experiment using Twitter bots. <i>PLoS ONE</i> , 2017, 12, e0184148.	1.1	225
6	Fundamental structures of dynamic social networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9977-9982.	3.3	195
7	The scales of human mobility. <i>Nature</i> , 2020, 587, 402-407.	13.7	132
8	Accelerating dynamics of collective attention. <i>Nature Communications</i> , 2019, 10, 1759.	5.8	130
9	Biclique communities. <i>Physical Review E</i> , 2008, 78, 016108.	0.8	108
10	Evidence for a conserved quantity in human mobility. <i>Nature Human Behaviour</i> , 2018, 2, 485-491.	6.2	105
11	Citation networks in high energy physics. <i>Physical Review E</i> , 2003, 68, 026113.	0.8	97
12	Tracking Human Mobility Using WiFi Signals. <i>PLoS ONE</i> , 2015, 10, e0130824.	1.1	91
13	The art of community detection. <i>BioEssays</i> , 2008, 30, 934-938.	1.2	87
14	The effectiveness of backward contact tracing in networks. <i>Nature Physics</i> , 2021, 17, 652-658.	6.5	85
15	The chaperone effect in scientific publishing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12603-12607.	3.3	84
16	The Strength of the Strongest Ties in Collaborative Problem Solving. <i>Scientific Reports</i> , 2014, 4, 5277.	1.6	82
17	Understanding predictability and exploration in human mobility. <i>EPJ Data Science</i> , 2018, 7, .	1.5	81
18	Interaction data from the Copenhagen Networks Study. <i>Scientific Data</i> , 2019, 6, 315.	2.4	81

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19	A quantitative analysis of indicators of scientific performance. <i>Scientometrics</i> , 2008, 76, 369-390.	1.6	80
20	Digital proximity tracing on empirical contact networks for pandemic control. <i>Nature Communications</i> , 2021, 12, 1655.	5.8	70
21	Gender differences in nighttime sleep patterns and variability across the adult lifespan: a global-scale wearables study. <i>Sleep</i> , 2021, 44, .	0.6	67
22	Class attendance, peer similarity, and academic performance in a large field study. <i>PLoS ONE</i> , 2017, 12, e0187078.	1.1	67
23	The Strength of Friendship Ties in Proximity Sensor Data. <i>PLoS ONE</i> , 2014, 9, e100915.	1.1	58
24	Multi-scale spatio-temporal analysis of human mobility. <i>PLoS ONE</i> , 2017, 12, e0171686.	1.1	57
25	Effect of manual and digital contact tracing on COVID-19 outbreaks: a study on empirical contact data. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20201000.	1.5	56
26	Inferring Person-to-person Proximity Using WiFi Signals. , 2017, 1, 1-20.		55
27	Academic performance and behavioral patterns. <i>EPJ Data Science</i> , 2018, 7, .	1.5	54
28	Rising temperatures erode human sleep globally. <i>One Earth</i> , 2022, 5, 534-549.	3.6	52
29	Deterministic modularity optimization. <i>European Physical Journal B</i> , 2007, 60, 83-88.	0.6	42
30	Constrained information flows in temporal networks reveal intermittent communities. <i>Physical Review E</i> , 2018, 97, 062312.	0.8	40
31	Participatory bluetooth sensing: A method for acquiring spatio-temporal data about participant mobility and interactions at large scale events. , 2013, , .		36
32	Social network differences of chronotypes identified from mobile phone data. <i>EPJ Data Science</i> , 2018, 7, .	1.5	36
33	SensibleSleep: A Bayesian Model for Learning Sleep Patterns from Smartphone Events. <i>PLoS ONE</i> , 2017, 12, e0169901.	1.1	36
34	Digital daily cycles of individuals. <i>Frontiers in Physics</i> , 2015, 3, .	1.0	34
35	Characterizing polarization in online vaccine discourse—A large-scale study. <i>PLoS ONE</i> , 2022, 17, e0263746.	1.1	32
36	Understanding the interplay between social and spatial behaviour. <i>EPJ Data Science</i> , 2018, 7, .	1.5	27

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37	Life, death and preferential attachment. Europhysics Letters, 2005, 69, 298-303.	0.7	26
38	Design process robustness: a bipartite network analysis reveals the central importance of people. Design Science, 2018, 4, .	1.1	24
39	Bipartite networks of Wikipedia's articles and authors. , 2009, , .		20
40	The role of gender in social network organization. PLoS ONE, 2017, 12, e0189873.	1.1	20
41	Fixed-time descriptive statistics underestimate extremes of epidemic curve ensembles. Nature Physics, 2021, 17, 5-8.	6.5	20
42	Iterations as the result of social and technical factors: empirical evidence from a large-scale design project. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2019, 30, 251-270.	1.2	19
43	Measure of Node Similarity in Multilayer Networks. PLoS ONE, 2016, 11, e0157436.	1.1	19
44	Robustness and modular structure in networks. Network Science, 2015, 3, 509-525.	0.8	18
45	Opportunities and Challenges in Crowdsourced Wardriving. , 2015, , .		17
46	Understanding components of mobility during the COVID-19 pandemic. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210118.	1.6	15
47	Temporal fidelity in dynamic social networks. European Physical Journal B, 2015, 88, 1.	0.6	14
48	How Physical Proximity Shapes Complex Social Networks. Scientific Reports, 2018, 8, 17722.	1.6	14
49	A mobile personal informatics system with interactive visualizations of mobility and social interactions. , 2013, , .		12
50	Inferring Stop-Locations from WiFi. PLoS ONE, 2016, 11, e0149105.	1.1	12
51	Inferring human mobility from sparse low accuracy mobile sensing data. , 2014, , .		11
52	Quantifying daily rhythms with non-negative matrix factorization applied to mobile phone data. Scientific Reports, 2022, 12, 5544.	1.6	11
53	Inferring transportation mode from smartphone sensors: Evaluating the potential of Wi-Fi and Bluetooth. PLoS ONE, 2020, 15, e0234003.	1.1	10
54	Optimizing targeted vaccination across cyber-physical networks: an empirically based mathematical simulation study. Journal of the Royal Society Interface, 2018, 15, 20170783.	1.5	9

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55	Fundamental Structures in Temporal Communication Networks. Computational Social Sciences, 2019, , 25-48.	0.4	9
56	Social ties between team members affect patient satisfaction: a data-driven approach to handling complex network analyses. Advances in Health Sciences Education, 2020, 25, 581-606.	1.7	8
57	Task-specific information outperforms surveillance-style big data in predictive analytics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	8
58	Spreading in Social Systems: Reflections. Computational Social Sciences, 2018, , 351-358.	0.4	8
59	Emergence of network effects and predictability in the judicial system. Scientific Reports, 2021, 11, 2740.	1.6	6
60	Correlations between human mobility and social interaction reveal general activity patterns. PLoS ONE, 2017, 12, e0188973.	1.1	6
61	Contact activity and dynamics of the social core. EPJ Data Science, 2017, 6, .	1.5	5
62	Live and Dead Nodes. Computational and Mathematical Organization Theory, 2005, 11, 161-170.	1.5	4
63	Privacy and uniqueness of neighborhoods in social networks. Scientific Reports, 2021, 11, 20104.	1.6	4
64	Trip frequency is key ingredient in new law of human travel. Nature, 2021, 593, 515-516.	18.7	3
65	Community Detection, Current and Future Research Trends. , 2014, , 214-220.		3
66	Extracting the interdisciplinary specialty structures in social media data-based research: A clustering-based network approach. Journal of Informetrics, 2022, 16, 101310.	1.4	3
67	Quantifying long-term impact of court decisions. Applied Network Science, 2019, 4, .	0.8	2
68	LDC '19. , 2019, , .		2
69	Dose-response functions and surrogate models for exploring social contagion in the Copenhagen Networks Study. European Physical Journal: Special Topics, 2021, 230, 1-24.	1.2	2
70	Comment: Citation Statistics. Statistical Science, 2009, 24, .	1.6	1
71	MODULARITY, ROBUSTNESS, AND CHANGE PROPAGATION: A MULTIFACETED RELATION. Proceedings of the Design Society DESIGN Conference, 2020, 1, 2335-2344.	0.8	1
72	A view from data science. Big Data and Society, 2021, 8, 205395172110401.	2.6	1

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73	OUP accepted manuscript. National Science Review, 2022, 9, nwab178.	4.6	1
74	Sleep during travel balances individual sleep needs. Nature Human Behaviour, 2022, , .	6.2	1
75	Using machine learning to identify quality-of-care predictors for emergency caesarean sections: a retrospective cohort study. BMJ Open, 2022, 12, e049046.	0.8	1
76	Interacting contagions. Nature Physics, 2020, 16, 377-378.	6.5	0
77	The role of space, time and sociability in predicting social encounters. Environment and Planning B: Urban Analytics and City Science, 0, , 239980832110168.	1.0	0
78	Structures in Complex Bipartite Networks. , 2009, , 176-189.		0
79	Networks in the Twenty-First Century. , 2014, , 1136-1141.		0
80	Networks in the Twenty-First Century. , 2016, , 1-6.		0
81	Community Detection, Current, and Future Research Trends. , 2017, , 1-7.		0
82	Community Detection: Current and Future Research Trends. , 2018, , 351-357.		0
83	Networks in the Twenty-First Century. , 2018, , 1600-1605.		0