

# Jiming Liu

## List of Publications by Year in Descending Order

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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.

98  
papers

1,730  
citations

23  
h-index

39  
g-index

102  
ext. papers

2,042  
ext. citations

3.4  
avg, IF

5.2  
L-index

#	Paper	IF	Citations
98	A Discrete Moth-Flame Optimization with an $L_2$ -norm Constraint for Network Clustering. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2022</b> , 1-1	4.9	1
97	Demystifying Deep Learning in Predictive Spatiotemporal Analytics: An Information-Theoretic Framework. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , 32, 3538-3552	10.3	1
96	Hybrid Embedding via Cross-Layer Random Walks on Multiplex Networks. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2021</b> , 8, 1815-1827	4.9	1
95	Heterogeneous neural metric learning for spatio-temporal modeling of infectious diseases with incomplete data. <i>Neurocomputing</i> , <b>2021</b> , 458, 701-713	5.4	
94	Medication Combination Prediction Using Temporal Attention Mechanism and Simple Graph Convolution. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2021</b> , 25, 3995-4004	7.2	2
93	Assessing the syndemic of COVID-19 and malaria intervention in Africa. <i>Infectious Diseases of Poverty</i> , <b>2021</b> , 10, 5	10.4	5
92	Graph Convolutional Architectures via Arbitrary Order of Information Aggregation. <i>IEEE Access</i> , <b>2020</b> , 8, 92802-92813	3.5	1
91	Paradigms in Epidemiology. <i>Health Information Science</i> , <b>2020</b> , 1-13	0.1	
90	Characterizing Socially Influenced Vaccination Decisions. <i>Health Information Science</i> , <b>2020</b> , 57-70	0.1	
89	Understanding the Effect of Social Media. <i>Health Information Science</i> , <b>2020</b> , 71-88	0.1	
88	Explaining Individuals' Vaccination Decisions. <i>Health Information Science</i> , <b>2020</b> , 49-56	0.1	
87	Welcome to the Era of Systems Epidemiology. <i>Health Information Science</i> , <b>2020</b> , 89-95	0.1	
86	Strategizing Vaccine Allocation. <i>Health Information Science</i> , <b>2020</b> , 33-48	0.1	
85	Computational Modeling in a Nutshell. <i>Health Information Science</i> , <b>2020</b> , 15-32	0.1	
84	Robustness Evaluation of Multipartite Complex Networks Based on Percolation Theory. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-14	7.3	5
83	Inference and prediction of malaria transmission dynamics using time series data. <i>Infectious Diseases of Poverty</i> , <b>2020</b> , 9, 95	10.4	2
82	Computational Epidemiology. <i>Health Information Science</i> , <b>2020</b> ,	0.1	2

81	Hierarchical Clustering of Bipartite Networks Based on Multiobjective Optimization. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2020</b> , 7, 421-434	4.9	4
80	Motif-aware diffusion network inference. <i>International Journal of Data Science and Analytics</i> , <b>2020</b> , 9, 375-387	2	3
79	Identifying Key Opinion Leaders in Social Media via Modality-Consistent Harmonized Discriminant Embedding. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 717-728	10.2	5
78	. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2020</b> , 7, 947-960	4.9	5
77	On the Robustness of Complex Systems With Multipartitivity Structures Under Node Attacks. <i>IEEE Transactions on Control of Network Systems</i> , <b>2020</b> , 7, 106-117	4	3
76	What are the underlying transmission patterns of COVID-19 outbreak? An age-specific social contact characterization. <i>EClinicalMedicine</i> , <b>2020</b> , 22, 100354	11.3	82
75	Mining Spatiotemporal Diffusion Network: A New Framework of Active Surveillance Planning. <i>IEEE Access</i> , <b>2019</b> , 7, 108458-108473	3.5	12
74	Unifying Structural Proximity and Equivalence for Network Embedding. <i>IEEE Access</i> , <b>2019</b> , 7, 106124-106138	3.5	8
73	An Intelligent Healthcare Decision Support System. <i>Health Information Science</i> , <b>2019</b> , 131-154	0.1	
72	An Adaptive Strategy for Wait Time Management. <i>Health Information Science</i> , <b>2019</b> , 85-96	0.1	
71	Spatio-Temporal Patterns in Patient Arrivals and Wait Times. <i>Health Information Science</i> , <b>2019</b> , 97-130	0.1	
70	Integrated Prediction of Service Performance. <i>Health Information Science</i> , <b>2019</b> , 69-84	0.1	
69	Data Analytics and Modeling Methods for Healthcare Service Systems. <i>Health Information Science</i> , <b>2019</b> , 23-34	0.1	
68	Effects of Supply Factors on Wait Times. <i>Health Information Science</i> , <b>2019</b> , 51-68	0.1	
67	Effects of Demand Factors on Service Utilization. <i>Health Information Science</i> , <b>2019</b> , 35-49	0.1	
66	Next Generation Technology for Epidemic Prevention and Control: Data-Driven Contact Tracking. <i>IEEE Access</i> , <b>2019</b> , 7, 2633-2642	3.5	34
65	Public Health Surveillance with Incomplete Data [Spatio-Temporal Imputation for Inferring Infectious Disease Dynamics <b>2018</b> ,		1
64	Partially Observable Reinforcement Learning for Sustainable Active Surveillance. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 425-437	0.9	5

63	Network-Based Modeling for Characterizing Human Collective Behaviors During Extreme Events. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 171-183	7.3	50
62	Characterizing and Discovering Spatiotemporal Social Contact Patterns for Healthcare. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2017</b> , 39, 1532-1546	13.3	10
61	Brand key asset discovery via cluster-wise biased discriminant projection <b>2017</b> ,		2
60	The robustness of ecosystems to the species loss of community. <i>Scientific Reports</i> , <b>2016</b> , 6, 35904	4.9	16
59	A Multiagent Evolutionary Method for Detecting Communities in Complex Networks. <i>Computational Intelligence</i> , <b>2016</b> , 32, 587-614	2.5	4
58	Inferring the Spatio-temporal Patterns of Dengue Transmission from Surveillance Data in Guangzhou, China. <i>PLoS Neglected Tropical Diseases</i> , <b>2016</b> , 10, e0004633	4.8	32
57	Efficient Vaccine Distribution Based on a Hybrid Compartmental Model. <i>PLoS ONE</i> , <b>2016</b> , 11, e0155416	3.7	6
56	Research Challenges and Perspectives on Wisdom Web of Things (W2T) <b>2016</b> , 3-26		5
55	Investigation of dynamics of a virus-antivirus model in complex network. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2015</b> , 421, 533-540	3.3	11
54	Mining geographic variations of Plasmodium vivax for active surveillance: a case study in China. <i>Malaria Journal</i> , <b>2015</b> , 14, 216	3.6	12
53	Inferring a district-based hierarchical structure of social contacts from census data. <i>PLoS ONE</i> , <b>2015</b> , 10, e0118085	3.7	2
52	A Unified Framework for Epidemic Prediction based on Poisson Regression. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2015</b> , 27, 2878-2892	4.2	8
51	Decentralized control and fair load-shedding compensations to prevent cascading failures in a smart grid. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2015</b> , 67, 582-590	5.1	31
50	Understanding self-organized regularities in healthcare services based on autonomy oriented modeling. <i>Natural Computing</i> , <b>2015</b> , 14, 7-24	1.3	3
49	Cooperative and penalized competitive learning with application to kernel-based clustering. <i>Pattern Recognition</i> , <b>2014</b> , 47, 3060-3069	7.7	21
48	Inferring epidemic network topology from surveillance data. <i>PLoS ONE</i> , <b>2014</b> , 9, e100661	3.7	10
47	Inferring Plasmodium vivax transmission networks from tempo-spatial surveillance data. <i>PLoS Neglected Tropical Diseases</i> , <b>2014</b> , 8, e2682	4.8	21
46	Global Bifurcation of a Novel Computer Virus Propagation Model. <i>Abstract and Applied Analysis</i> , <b>2014</b> , 2014, 1-6	0.7	2

45	Modeling and Mining Spatiotemporal Social Contact of Metapopulation from Heterogeneous Data <b>2014</b> ,		5
44	Inferring disease transmission networks at a metapopulation level. <i>Health Information Science and Systems</i> , <b>2014</b> , 2, 8	5.1	8
43	A belief-based model for characterizing the spread of awareness and its impacts on individuals' vaccination decisions. <i>Journal of the Royal Society Interface</i> , <b>2014</b> , 11, 20140013	4.1	30
42	A cooperative group optimization system. <i>Soft Computing</i> , <b>2014</b> , 18, 469-495	3.5	5
41	Inferring Metapopulation Based Disease Transmission Networks. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 385-399	0.9	5
40	Effects of geodemographic profiles on healthcare service utilization: a case study on cardiac care in Ontario, Canada. <i>BMC Health Services Research</i> , <b>2013</b> , 13, 239	2.9	6
39	Speeding up k-Means algorithm by GPUs. <i>Journal of Computer and System Sciences</i> , <b>2013</b> , 79, 216-229	1	35
38	Research priorities in modeling the transmission risks of H7N9 bird flu. <i>Infectious Diseases of Poverty</i> , <b>2013</b> , 2, 17	10.4	18
37	Modeling and Restraining Mobile Virus Propagation. <i>IEEE Transactions on Mobile Computing</i> , <b>2013</b> , 12, 529-541	4.6	66
36	A computational approach to characterizing the impact of social influence on individuals' vaccination decision making. <i>PLoS ONE</i> , <b>2013</b> , 8, e60373	3.7	46
35	Identifying the relative priorities of subpopulations for containing infectious disease spread. <i>PLoS ONE</i> , <b>2013</b> , 8, e65271	3.7	23
34	A Complex Systems Approach to Infectious Disease Surveillance and Response. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 524-535	0.9	5
33	Toward understanding the optimization of complex systems. <i>Artificial Intelligence Review</i> , <b>2012</b> , 38, 313-324	3.7	2
32	Malaria transmission modelling: a network perspective. <i>Infectious Diseases of Poverty</i> , <b>2012</b> , 1, 11	10.4	23
31	Towards understanding the robustness of energy distribution networks based on macroscopic and microscopic evaluations. <i>Energy Policy</i> , <b>2012</b> , 49, 318-327	7.2	2
30	On the Spectral Characterization and Scalable Mining of Network Communities. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2012</b> , 24, 326-337	4.2	30
29	Data Engineering in Graph Databases. <i>Lecture Notes in Electrical Engineering</i> , <b>2011</b> , 127-132	0.2	
28	Discovering the impact of preceding units' characteristics on the wait time of cardiac surgery unit from statistic data. <i>PLoS ONE</i> , <b>2011</b> , 6, e21959	3.7	6

27	Toward effective vaccine deployment: a systematic study. <i>Journal of Medical Systems</i> , <b>2011</b> , 35, 1153-64	5.1	10
26	Network immunization and virus propagation in email networks: experimental evaluation and analysis. <i>Knowledge and Information Systems</i> , <b>2011</b> , 27, 253-279	2.4	61
25	Modeling and predicting the dynamics of mobile virus spread affected by human behavior <b>2011</b> ,		11
24	Adaptive Immunization in Dynamic Networks. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 673-683	0.9	2
23	Discovering Communities from Social Networks: Methodologies and Applications <b>2010</b> , 331-346		34
22	Autonomy-Oriented Search in Dynamic Community Networks: A Case Study in Decentralized Network Immunization. <i>Fundamenta Informaticae</i> , <b>2010</b> , 99, 207-226	1	4
21	An autonomy-oriented computing approach to community mining in distributed and dynamic networks. <i>Autonomous Agents and Multi-Agent Systems</i> , <b>2010</b> , 20, 123-157	2	16
20	An Operable Email Based Intelligent Personal Assistant. <i>World Wide Web</i> , <b>2009</b> , 12, 125-147	2.9	11
19	Multiagent optimization system for solving the traveling salesman problem (TSP). <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2009</b> , 39, 489-502		46
18	Complex Network Clustering Algorithms. <i>Ruan Jian Xue Bao/Journal of Software</i> , <b>2009</b> , 20, 54-66		35
17	Discovering global network communities based on local centralities. <i>ACM Transactions on the Web</i> , <b>2008</b> , 2, 1-32	3.2	20
16	Autonomy-Oriented Computing (AOC): The Nature and Implications of a Paradigm for Self-Organized Computing <b>2008</b> ,		19
15	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2007</b> , 19, 1333-1348	4.2	248
14	Envisioning intelligent information technologies through the prism of web intelligence. <i>Communications of the ACM</i> , <b>2007</b> , 50, 89-94	2.5	52
13	<b>2006</b> ,		2
12	Toward nature-inspired computing. <i>Communications of the ACM</i> , <b>2006</b> , 49, 59-64	2.5	41
11	. <i>IEEE Internet Computing</i> , <b>2006</b> , 10, 44-54	2.4	12
10	E-Service/Process Composition Through Multi-agent Constraint Management. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 274-289	0.9	9

9	ON KNOWLEDGE GRID AND GRID INTELLIGENCE: A SURVEY. <i>Computational Intelligence</i> , <b>2005</b> , 21, 111-129		5
8	A Massively Multi-agent System for Discovering HIV-Immune Interaction Dynamics. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 161-173	0.9	13
7	Characterizing Web usage regularities with information foraging agents. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2004</b> , 16, 566-584	4.2	42
6	Towards autonomous service composition in a grid environment <b>2004</b> ,		12
5	Self-Organized Load Balancing in Proxy Servers: Algorithms and Performance. <i>Journal of Intelligent Information Systems</i> , <b>2003</b> , 20, 31-50	2.1	3
4	In search of the wisdom web. <i>Computer</i> , <b>2002</b> , 35, 27-31	1.6	85
3	Multi-agent oriented constraint satisfaction. <i>Artificial Intelligence</i> , <b>2002</b> , 136, 101-144	3.6	140
2	Autonomous Agents and Multi-Agent Systems <b>2001</b> ,		48
1	Dynamic Resource Selection For Service Composition in The Grid		6