Jiming Liu

List of Publications by Citations

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	. *IEEE Transactions on Knowledge and Data Engineering*, **2007**, 19, 1333-1348	4.2	248
97	Multi-agent oriented constraint satisfaction. *Artificial Intelligence*, **2002**, 136, 101-144	3.6	140
96	In search of the wisdom web. *Computer*, **2002**, 35, 27-31	1.6	85
95	What are the underlying transmission patterns of COVID-19 outbreak? An age-specific social contact characterization. *EClinicalMedicine*, **2020**, 22, 100354	11.3	82
94	Modeling and Restraining Mobile Virus Propagation. *IEEE Transactions on Mobile Computing*, **2013**, 12, 529-541	4.6	66
93	Network immunization and virus propagation in email networks: experimental evaluation and analysis. *Knowledge and Information Systems*, **2011**, 27, 253-279	2.4	61
92	Envisioning intelligent information technologies through the prism of web intelligence. *Communications of the ACM*, **2007**, 50, 89-94	2.5	52
91	Network-Based Modeling for Characterizing Human Collective Behaviors During Extreme Events. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2017**, 47, 171-183	7.3	50
90	Autonomous Agents and Multi-Agent Systems **2001**,		48
89	Multiagent optimization system for solving the traveling salesman problem (TSP). *IEEE Transactions on Systems, Man, and Cybernetics*, **2009**, 39, 489-502		46
88	A computational approach to characterizing the impact of social influence on individuals' vaccination decision making. *PLoS ONE*, **2013**, 8, e60373	3.7	46
87	Characterizing Web usage regularities with information foraging agents. *IEEE Transactions on Knowledge and Data Engineering*, **2004**, 16, 566-584	4.2	42
86	Toward nature-inspired computing. *Communications of the ACM*, **2006**, 49, 59-64	2.5	41
85	Speeding up k-Means algorithm by GPUs. *Journal of Computer and System Sciences*, **2013**, 79, 216-229	1	35
84	Complex Network Clustering Algorithms. *Ruan Jian Xue Bao/Journal of Software*, **2009**, 20, 54-66		35
83	Discovering Communities from Social Networks: Methodologies and Applications **2010**, 331-346		34
82	Next Generation Technology for Epidemic Prevention and Control: Data-Driven Contact Tracking. *IEEE Access*, **2019**, 7, 2633-2642	3.5	34

81	Inferring the Spatio-temporal Patterns of Dengue Transmission from Surveillance Data in Guangzhou, China. *PLoS Neglected Tropical Diseases*, **2016**, 10, e0004633	4.8	32
80	Decentralized control and fair load-shedding compensations to prevent cascading failures in a smart grid. *International Journal of Electrical Power and Energy Systems*, **2015**, 67, 582-590	5.1	31
79	A belief-based model for characterizing the spread of awareness and its impacts on individuals' vaccination decisions. *Journal of the Royal Society Interface*, **2014**, 11, 20140013	4.1	30
78	On the Spectral Characterization and Scalable Mining of Network Communities. *IEEE Transactions on Knowledge and Data Engineering*, **2012**, 24, 326-337	4.2	30
77	Malaria transmission modelling: a network perspective. *Infectious Diseases of Poverty*, **2012**, 1, 11	10.4	23
76	Identifying the relative priorities of subpopulations for containing infectious disease spread. *PLoS ONE*, **2013**, 8, e65271	3.7	23
75	Cooperative and penalized competitive learning with application to kernel-based clustering. *Pattern Recognition*, **2014**, 47, 3060-3069	7.7	21
74	Inferring Plasmodium vivax transmission networks from tempo-spatial surveillance data. *PLoS Neglected Tropical Diseases*, **2014**, 8, e2682	4.8	21
73	Discovering global network communities based on local centralities. *ACM Transactions on the Web*, **2008**, 2, 1-32	3.2	20
72	Autonomy-Oriented Computing (AOC): The Nature and Implications of a Paradigm for Self-Organized Computing **2008**,		19
71	Research priorities in modeling the transmission risks of H7N9 bird flu. *Infectious Diseases of Poverty*, **2013**, 2, 17	10.4	18
70	The robustness of ecosystems to the species loss of community. *Scientific Reports*, **2016**, 6, 35904	4.9	16
69	An autonomy-oriented computing approach to community mining in distributed and dynamic networks. *Autonomous Agents and Multi-Agent Systems*, **2010**, 20, 123-157	2	16
68	A Massively Multi-agent System for Discovering HIV-Immune Interaction Dynamics. *Lecture Notes in Computer Science*, **2005**, 161-173	0.9	13
67	Mining Spatiotemporal Diffusion Network: A New Framework of Active Surveillance Planning. *IEEE Access*, **2019**, 7, 108458-108473	3.5	12
66	Mining geographic variations of Plasmodium vivax for active surveillance: a case study in China. *Malaria Journal*, **2015**, 14, 216	3.6	12
65	. *IEEE Internet Computing*, **2006**, 10, 44-54	2.4	12
64	Towards autonomous service composition in a grid environment **2004**,		12

63	Investigation of dynamics of a virus–antivirus model in complex network. *Physica A: Statistical Mechanics and Its Applications*, **2015**, 421, 533-540	3.3	11
62	Modeling and predicting the dynamics of mobile virus spread affected by human behavior **2011**,		11
61	An Operable Email Based Intelligent Personal Assistant. *World Wide Web*, **2009**, 12, 125-147	2.9	11
60	Characterizing and Discovering Spatiotemporal Social Contact Patterns for Healthcare. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2017**, 39, 1532-1546	13.3	10
59	Inferring epidemic network topology from surveillance data. *PLoS ONE*, **2014**, 9, e100661	3.7	10
58	Toward effective vaccine deployment: a systematic study. *Journal of Medical Systems*, **2011**, 35, 1153-64	5.1	10
57	E-Service/Process Composition Through Multi-agent Constraint Management. *Lecture Notes in Computer Science*, **2006**, 274-289	0.9	9
56	Unifying Structural Proximity and Equivalence for Network Embedding. *IEEE Access*, **2019**, 7, 106124-106138	3.9	8
55	A Unified Framework for Epidemic Prediction based on Poisson Regression. *IEEE Transactions on Knowledge and Data Engineering*, **2015**, 27, 2878-2892	4.2	8
54	Inferring disease transmission networks at a metapopulation level. *Health Information Science and Systems*, **2014**, 2, 8	5.1	8
53	Effects of geodemographic profiles on healthcare service utilization: a case study on cardiac care in Ontario, Canada. *BMC Health Services Research*, **2013**, 13, 239	2.9	6
52	Discovering the impact of preceding units' characteristics on the wait time of cardiac surgery unit from statistic data. *PLoS ONE*, **2011**, 6, e21959	3.7	6
51	Dynamic Resource Selection For Service Composition in The Grid		6
50	Efficient Vaccine Distribution Based on a Hybrid Compartmental Model. *PLoS ONE*, **2016**, 11, e0155416	3.7	6
49	Modeling and Mining Spatiotemporal Social Contact of Metapopulation from Heterogeneous Data **2014**,		5
48	A cooperative group optimization system. *Soft Computing*, **2014**, 18, 469-495	3.5	5
47	ON KNOWLEDGE GRID AND GRID INTELLIGENCE: A SURVEY. *Computational Intelligence*, **2005**, 21, 111-129	2.5	5
46	A Complex Systems Approach to Infectious Disease Surveillance and Response. *Lecture Notes in Computer Science*, **2013**, 524-535	0.9	5

45	Inferring Metapopulation Based Disease Transmission Networks. *Lecture Notes in Computer Science*, **2014**, 385-399	0.9	5
44	Research Challenges and Perspectives on Wisdom Web of Things (W2T) **2016**, 3-26		5
43	Partially Observable Reinforcement Learning for Sustainable Active Surveillance. *Lecture Notes in Computer Science*, **2018**, 425-437	0.9	5
42	Robustness Evaluation of Multipartite Complex Networks Based on Percolation Theory. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-14	7.3	5
41	Identifying Key Opinion Leaders in Social Media via Modality-Consistent Harmonized Discriminant Embedding. *IEEE Transactions on Cybernetics*, **2020**, 50, 717-728	10.2	5
40	. *IEEE Transactions on Network Science and Engineering*, **2020**, 7, 947-960	4.9	5
39	Accessing the syndemic of COVID-19 and malaria intervention in Africa. *Infectious Diseases of Poverty*, **2021**, 10, 5	10.4	5
38	A Multiagent Evolutionary Method for Detecting Communities in Complex Networks. *Computational Intelligence*, **2016**, 32, 587-614	2.5	4
37	Autonomy-Oriented Search in Dynamic Community Networks: A Case Study in Decentralized Network Immunization. *Fundamenta Informaticae*, **2010**, 99, 207-226	1	4
36	Hierarchical Clustering of Bipartite Networks Based on Multiobjective Optimization. *IEEE Transactions on Network Science and Engineering*, **2020**, 7, 421-434	4.9	4
35	Understanding self-organized regularities in healthcare services based on autonomy oriented modeling. *Natural Computing*, **2015**, 14, 7-24	1.3	3
34	Self-Organized Load Balancing in Proxy Servers: Algorithms and Performance. *Journal of Intelligent Information Systems*, **2003**, 20, 31-50	2.1	3
33	Motif-aware diffusion network inference. *International Journal of Data Science and Analytics*, **2020**, 9, 375-387	2	3
32	On the Robustness of Complex Systems With Multipartitivity Structures Under Node Attacks. *IEEE Transactions on Control of Network Systems*, **2020**, 7, 106-117	4	3
31	Brand key asset discovery via cluster-wise biased discriminant projection **2017**,		2
30	Inferring a district-based hierarchical structure of social contacts from census data. *PLoS ONE*, **2015**, 10, e0118085	3.7	2
29	Global Bifurcation of a Novel Computer Virus Propagation Model. *Abstract and Applied Analysis*, **2014**, 2014, 1-6	0.7	2
28	Toward understanding the optimization of complex systems. *Artificial Intelligence Review*, **2012**, 38, 313-324	3.7	2

27	Towards understanding the robustness of energy distribution networks based on macroscopic and microscopic evaluations. *Energy Policy*, **2012**, 49, 318-327	7.2	2
26	**2006**,		2
25	Adaptive Immunization in Dynamic Networks. *Lecture Notes in Computer Science*, **2011**, 673-683	0.9	2
24	Inference and prediction of malaria transmission dynamics using time series data. *Infectious Diseases of Poverty*, **2020**, 9, 95	10.4	2
23	Computational Epidemiology. *Health Information Science*, **2020**,	0.1	2
22	Medication Combination Prediction Using Temporal Attention Mechanism and Simple Graph Convolution. *IEEE Journal of Biomedical and Health Informatics*, **2021**, 25, 3995-4004	7.2	2
21	Graph Convolutional Architectures via Arbitrary Order of Information Aggregation. *IEEE Access*, **2020**, 8, 92802-92813	3.5	1
20	Public Health Surveillance with Incomplete Data Spatio-Temporal Imputation for Inferring Infectious Disease Dynamics **2018**,		1
19	Demystifying Deep Learning in Predictive Spatiotemporal Analytics: An Information-Theoretic Framework. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 3538-3552	10.3	1
18	Hybrid Embedding via Cross-Layer Random Walks on Multiplex Networks. *IEEE Transactions on Network Science and Engineering*, **2021**, 8, 1815-1827	4.9	1
17	A Discrete Moth-Flame Optimization with an l₂-norm Constraint for Network Clustering. *IEEE Transactions on Network Science and Engineering*, **2022**, 1-1	4.9	1
16	An Intelligent Healthcare Decision Support System. *Health Information Science*, **2019**, 131-154	0.1	
15	An Adaptive Strategy for Wait Time Management. *Health Information Science*, **2019**, 85-96	0.1	
14	Spatio-Temporal Patterns in Patient Arrivals and Wait Times. *Health Information Science*, **2019**, 97-130	0.1	
13	Data Engineering in Graph Databases. *Lecture Notes in Electrical Engineering*, **2011**, 127-132	0.2	
12	Paradigms in Epidemiology. *Health Information Science*, **2020**, 1-13	0.1	
11	Characterizing Socially Influenced Vaccination Decisions. *Health Information Science*, **2020**, 57-70	0.1	
10	Understanding the Effect of Social Media. *Health Information Science*, **2020**, 71-88	0.1	

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9	Explaining Individuals Vaccination Decisions. *Health Information Science*, **2020**, 49-56	0.1
8	Welcome to the Era of Systems Epidemiology. *Health Information Science*, **2020**, 89-95	0.1
7	Integrated Prediction of Service Performance. *Health Information Science*, **2019**, 69-84	0.1
6	Data Analytics and Modeling Methods for Healthcare Service Systems. *Health Information Science*, **2019**, 23-34	0.1
5	Effects of Supply Factors on Wait Times. *Health Information Science*, **2019**, 51-68	0.1
4	Effects of Demand Factors on Service Utilization. *Health Information Science*, **2019**, 35-49	0.1
3	Strategizing Vaccine Allocation. *Health Information Science*, **2020**, 33-48	0.1
2	Computational Modeling in a Nutshell. *Health Information Science*, **2020**, 15-32	0.1
1	Heterogeneous neural metric learning for spatio-temporal modeling of infectious diseases with incomplete data. *Neurocomputing*, **2021**, 458, 701-713	5.4