

# Jiming Liu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6544321/publications.pdf>

Version: 2024-02-01

99  
papers

2,321  
citations

279778

23  
h-index

243610

44  
g-index

102  
all docs

102  
docs citations

102  
times ranked

1995  
citing authors

#	ARTICLE	IF	CITATIONS
1	Community Mining from Signed Social Networks. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 1333-1348.	5.7	317
2	Multi-agent oriented constraint satisfaction. Artificial Intelligence, 2002, 136, 101-144.	5.8	167
3	What are the underlying transmission patterns of COVID-19 outbreak? An age-specific social contact characterization. EClinicalMedicine, 2020, 22, 100354.	7.1	118
4	In search of the wisdom web. Computer, 2002, 35, 27-31.	1.1	110
5	Modeling and Restraining Mobile Virus Propagation. IEEE Transactions on Mobile Computing, 2013, 12, 529-541.	5.8	91
6	Network-Based Modeling for Characterizing Human Collective Behaviors During Extreme Events. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 171-183.	9.3	80
7	Network immunization and virus propagation in email networks: experimental evaluation and analysis. Knowledge and Information Systems, 2011, 27, 253-279.	3.2	74
8	Envisioning intelligent information technologies through the prism of web intelligence. Communications of the ACM, 2007, 50, 89-94.	4.5	65
9	Characterizing web usage regularities with information foraging agents. IEEE Transactions on Knowledge and Data Engineering, 2004, 16, 566-584.	5.7	60
10	A Computational Approach to Characterizing the Impact of Social Influence on Individuals'™ Vaccination Decision Making. PLoS ONE, 2013, 8, e60373.	2.5	59
11	Multiagent Optimization System for Solving the Traveling Salesman Problem (TSP). IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 489-502.	5.0	58
12	Speeding up k-Means algorithm by GPUs. Journal of Computer and System Sciences, 2013, 79, 216-229.	1.2	56
13	Toward nature-inspired computing. Communications of the ACM, 2006, 49, 59-64.	4.5	55
14	Complex Network Clustering Algorithms. Ruan Jian Xue Bao/Journal of Software, 2009, 20, 54-66.	0.3	52
15	Next Generation Technology for Epidemic Prevention and Control: Data-Driven Contact Tracking. IEEE Access, 2019, 7, 2633-2642.	4.2	49
16	Discovering Communities from Social Networks: Methodologies and Applications. , 2010, , 331-346.		47
17	On the Spectral Characterization and Scalable Mining of Network Communities. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 326-337.	5.7	40
18	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.	5.5	40

#	ARTICLE	IF	CITATIONS
19	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> , 2014, 11, 20140013.	3.4	39
20	Inferring the Spatio-temporal Patterns of Dengue Transmission from Surveillance Data in Guangzhou, China. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004633.	3.0	37
21	Discovering global network communities based on local centralities. <i>ACM Transactions on the Web</i> , 2008, 2, 1-32.	2.5	31
22	Identifying the Relative Priorities of Subpopulations for Containing Infectious Disease Spread. <i>PLoS ONE</i> , 2013, 8, e65271.	2.5	29
23	Autonomy-Oriented Computing (AOC): The Nature and Implications of a Paradigm for Self-Organized Computing. , 2008, , .		25
24	Malaria transmission modelling: a network perspective. <i>Infectious Diseases of Poverty</i> , 2012, 1, 11.	3.7	25
25	Service-Oriented Distributed Data Mining. <i>IEEE Internet Computing</i> , 2006, 10, 44-54.	3.3	23
26	Research priorities in modeling the transmission risks of H7N9 bird flu. <i>Infectious Diseases of Poverty</i> , 2013, 2, 17.	3.7	23
27	Inferring Plasmodium vivax Transmission Networks from Tempo-Spatial Surveillance Data. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2682.	3.0	23
28	An autonomy-oriented computing approach to community mining in distributed and dynamic networks. <i>Autonomous Agents and Multi-Agent Systems</i> , 2010, 20, 123-157.	2.1	22
29	Cooperative and penalized competitive learning with application to kernel-based clustering. <i>Pattern Recognition</i> , 2014, 47, 3060-3069.	8.1	21
30	The robustness of ecosystems to the species loss of community. <i>Scientific Reports</i> , 2016, 6, 35904.	3.3	20
31	A Unified Framework for Epidemic Prediction based on Poisson Regression. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2015, 27, 2878-2892.	5.7	16
32	Investigation of dynamics of a virus-antivirus model in complex network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 421, 533-540.	2.6	16
33	Towards autonomous service composition in a grid environment. , 2004, , .		15
34	A Massively Multi-agent System for Discovering HIV-Immune Interaction Dynamics. <i>Lecture Notes in Computer Science</i> , 2005, , 161-173.	1.3	15
35	Inferring Epidemic Network Topology from Surveillance Data. <i>PLoS ONE</i> , 2014, 9, e100661.	2.5	15
36	Identifying Key Opinion Leaders in Social Media via Modality-Consistent Harmonized Discriminant Embedding. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 717-728.	9.5	15

#	ARTICLE	IF	CITATIONS
37	Assessing the syndemic of COVID-19 and malaria intervention in Africa. <i>Infectious Diseases of Poverty</i> , 2021, 10, 5.	3.7	15
38	Characterizing and Discovering Spatiotemporal Social Contact Patterns for Healthcare. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017, 39, 1532-1546.	13.9	14
39	Mining Spatiotemporal Diffusion Network: A New Framework of Active Surveillance Planning. <i>IEEE Access</i> , 2019, 7, 108458-108473.	4.2	14
40	Unifying Structural Proximity and Equivalence for Network Embedding. <i>IEEE Access</i> , 2019, 7, 106124-106138.	4.2	14
41	An Operable Email Based Intelligent Personal Assistant. <i>World Wide Web</i> , 2009, 12, 125-147.	4.0	13
42	Mining geographic variations of <i>Plasmodium vivax</i> for active surveillance: a case study in China. <i>Malaria Journal</i> , 2015, 14, 216.	2.3	13
43	Hierarchical Clustering of Bipartite Networks Based on Multiobjective Optimization. <i>IEEE Transactions on Network Science and Engineering</i> , 2020, 7, 421-434.	6.4	13
44	Robustness Evaluation of Multipartite Complex Networks Based on Percolation Theory. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 6244-6257.	9.3	13
45	Modeling and predicting the dynamics of mobile virus spread affected by human behavior. , 2011, , .		12
46	Toward Effective Vaccine Deployment: A Systematic Study. <i>Journal of Medical Systems</i> , 2011, 35, 1153-1164.	3.6	12
47	E-Service/Process Composition Through Multi-agent Constraint Management. <i>Lecture Notes in Computer Science</i> , 2006, , 274-289.	1.3	12
48	Efficient Vaccine Distribution Based on a Hybrid Compartmental Model. <i>PLoS ONE</i> , 2016, 11, e0155416.	2.5	11
49	Dynamic Resource Selection For Service Composition in The Grid. , 0, , .		9
50	ON KNOWLEDGE GRID AND GRID INTELLIGENCE: A SURVEY. <i>Computational Intelligence</i> , 2005, 21, 111-129.	3.2	9
51	On the Robustness of Complex Systems With Multipartitivity Structures Under Node Attacks. <i>IEEE Transactions on Control of Network Systems</i> , 2020, 7, 106-117.	3.7	9
52	Medication Combination Prediction Using Temporal Attention Mechanism and Simple Graph Convolution. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 3995-4004.	6.3	9
53	Effects of geodemographic profiles on healthcare service utilization: a case study on cardiac care in Ontario, Canada. <i>BMC Health Services Research</i> , 2013, 13, 239.	2.2	8
54	Inferring disease transmission networks at a metapopulation level. <i>Health Information Science and Systems</i> , 2014, 2, 8.	5.2	8

#	ARTICLE	IF	CITATIONS
55	Self-Organized Load Balancing in Proxy Servers: Algorithms and Performance. Journal of Intelligent Information Systems, 2003, 20, 31-50.	3.9	7
56	Discovering the Impact of Preceding Units' Characteristics on the Wait Time of Cardiac Surgery Unit from Statistic Data. PLoS ONE, 2011, 6, e21959.	2.5	7
57	A cooperative group optimization system. Soft Computing, 2014, 18, 469-495.	3.6	6
58	Breakup of Directed Multipartite Networks. IEEE Transactions on Network Science and Engineering, 2020, 7, 947-960.	6.4	6
59	Inference and prediction of malaria transmission dynamics using time series data. Infectious Diseases of Poverty, 2020, 9, 95.	3.7	6
60	Computational Epidemiology. Health Information Science, 2020, , .	0.4	6
61	A Complex Systems Approach to Infectious Disease Surveillance and Response. Lecture Notes in Computer Science, 2013, , 524-535.	1.3	6
62	Inferring Metapopulation Based Disease Transmission Networks. Lecture Notes in Computer Science, 2014, , 385-399.	1.3	6
63	Partially Observable Reinforcement Learning for Sustainable Active Surveillance. Lecture Notes in Computer Science, 2018, , 425-437.	1.3	6
64	Modeling and Mining Spatiotemporal Social Contact of Metapopulation from Heterogeneous Data. , 2014, , .		5
65	Understanding self-organized regularities in healthcare services based on autonomy oriented modeling. Natural Computing, 2015, 14, 7-24.	3.0	5
66	Motif-aware diffusion network inference. International Journal of Data Science and Analytics, 2020, 9, 375-387.	4.1	5
67	Research Challenges and Perspectives on Wisdom Web of Things (W2T). , 2016, , 3-26.		5
68	Autonomy-Oriented Search in Dynamic Community Networks: A Case Study in Decentralized Network Immunization. Fundamenta Informaticae, 2010, 99, 207-226.	0.4	4
69	Toward understanding the optimization of complex systems. Artificial Intelligence Review, 2012, 38, 313-324.	15.7	4
70	A Multiagent Evolutionary Method for Detecting Communities in Complex Networks. Computational Intelligence, 2016, 32, 587-614.	3.2	4
71	Demystifying Deep Learning in Predictive Spatiotemporal Analytics: An Information-Theoretic Framework. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3538-3552.	11.3	4
72	Brand key asset discovery via cluster-wise biased discriminant projection. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
73	Adaptive Immunization in Dynamic Networks. Lecture Notes in Computer Science, 2011, , 673-683.	1.3	3
74	A Discrete Moth-Flame Optimization With an $L_2$ -Norm Constraint for Network Clustering. IEEE Transactions on Network Science and Engineering, 2022, 9, 1776-1788.	6.4	3
75	Perspective of Applying the Global E-mail Network. , 2006, , .		2
76	Towards understanding the robustness of energy distribution networks based on macroscopic and microscopic evaluations. Energy Policy, 2012, 49, 318-327.	8.8	2
77	Global Bifurcation of a Novel Computer Virus Propagation Model. Abstract and Applied Analysis, 2014, 2014, 1-6.	0.7	2
78	Inferring a District-Based Hierarchical Structure of Social Contacts from Census Data. PLoS ONE, 2015, 10, e0118085.	2.5	2
79	Public Health Surveillance with Incomplete Data – Spatio-Temporal Imputation for Inferring Infectious Disease Dynamics. , 2018, , .		1
80	Healthcare Service Management. Health Information Science, 2019, , .	0.4	1
81	Scalable and Parallel Deep Bayesian Optimization on Attributed Graphs. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 103-116.	11.3	1
82	Graph Convolutional Architectures via Arbitrary Order of Information Aggregation. IEEE Access, 2020, 8, 92802-92813.	4.2	1
83	Hybrid Embedding via Cross-Layer Random Walks on Multiplex Networks. IEEE Transactions on Network Science and Engineering, 2021, 8, 1815-1827.	6.4	1
84	Data Engineering in Graph Databases. Lecture Notes in Electrical Engineering, 2011, , 127-132.	0.4	0
85	An Intelligent Healthcare Decision Support System. Health Information Science, 2019, , 131-154.	0.4	0
86	An Adaptive Strategy for Wait Time Management. Health Information Science, 2019, , 85-96.	0.4	0
87	Spatio-Temporal Patterns in Patient Arrivals and Wait Times. Health Information Science, 2019, , 97-130.	0.4	0
88	Heterogeneous neural metric learning for spatio-temporal modeling of infectious diseases with incomplete data. Neurocomputing, 2021, 458, 701-713.	5.9	0
89	Integrated Prediction of Service Performance. Health Information Science, 2019, , 69-84.	0.4	0
90	Data Analytics and Modeling Methods for Healthcare Service Systems. Health Information Science, 2019, , 23-34.	0.4	0

#	ARTICLE	IF	CITATIONS
91	Effects of Supply Factors on Wait Times. Health Information Science, 2019, , 51-68.	0.4	0
92	Strategizing Vaccine Allocation. Health Information Science, 2020, , 33-48.	0.4	0
93	Computational Modeling in a Nutshell. Health Information Science, 2020, , 15-32.	0.4	0
94	Paradigms in Epidemiology. Health Information Science, 2020, , 1-13.	0.4	0
95	Characterizing Socially Influenced Vaccination Decisions. Health Information Science, 2020, , 57-70.	0.4	0
96	Understanding the Effect of Social Media. Health Information Science, 2020, , 71-88.	0.4	0
97	Explaining Individuals'™ Vaccination Decisions. Health Information Science, 2020, , 49-56.	0.4	0
98	Welcome to the Era of Systems Epidemiology. Health Information Science, 2020, , 89-95.	0.4	0
99	A Novel Graph Indexing Approach for Uncovering Potential COVID-19 Transmission Clusters. ACM Transactions on Knowledge Discovery From Data, 2023, 17, 1-24.	3.5	0