Xiaofeng Gao

List of Publications by Year
in descending order

146 papers	1,721 citations	361413 20 h-index	377865 34 g-index
149 all docs	149 docs citations	149 times ranked	1445 citing authors

#	ARTICLE	IF	CITATIONS
1	Cooperative Sweep Coverage Problem With Mobile Sensors. IEEE Transactions on Mobile Computing, 2022, 21, 480-494.	5.8	10
2	MAB-Based Reinforced Worker Selection Framework for Budgeted Spatial Crowdsensing. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 1303-1316.	5.7	31
3	Predicting Hot Events in the Early Period through Bayesian Model for Social Networks. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 1390-1403.	5.7	4
4	An Embedded GRASP-VNS based Two-Layer Framework for Tour Recommendation. IEEE Transactions on Services Computing, 2022, 15, 847-859.	4.6	3
5	Using Survival Theory in Early Pattern Detection for Viral Cascades. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 2497-2511.	5.7	3
6	An End-to-End Learning-Based Metadata Management Approach for Distributed File Systems. IEEE Transactions on Computers, 2022, 71, 1021-1034.	3.4	1
7	Efficient Crowdsourcing-Aided Positioning and Ground-Truth-Aided Truth Discovery for Mobile Wireless Sensor Networks in Urban Fields. IEEE Transactions on Wireless Communications, 2022, 21, 1652-1664.	9.2	3
8	Hybrid deep learning model for risk prediction of fracture in patients with diabetes and osteoporosis. Frontiers of Medicine, 2022, 16, 496-506.	3.4	9
9	On Designing Strategy-Proof Budget Feasible Online Mechanisms for Mobile Crowdsensing With Time-Discounting Values. IEEE Transactions on Mobile Computing, 2022, 21, 2088-2102.	5.8	12
10	Multi-Resource VNF Deployment in a Heterogeneous Cloud. IEEE Transactions on Computers, 2022, 71, 81-91.	3.4	5
11	Show Me What You Can Do: Capability Calibration on Reachable Workspace for Human-Robot Collaboration. IEEE Robotics and Automation Letters, 2022, 7, 2644-2651.	5.1	0
12	In situ bidirectional human-robot value alignment. Science Robotics, 2022, 7, .	17.6	27
13	Quality Inference Based Task Assignment in Mobile Crowdsensing. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 3410-3423.	5.7	26
14	An Approximation Algorithm for Bounded Task Assignment Problem in Spatial Crowdsourcing. IEEE Transactions on Mobile Computing, 2021, 20, 2536-2549.	5.8	13
15	Predicting Task-Driven Attention via Integrating Bottom-Up Stimulus and Top-Down Guidance. IEEE Transactions on Image Processing, 2021, 30, 8293-8305.	9.8	5
16	Cross-Platform Event Popularity Analysis via Dynamic Time Warping and Neural Prediction. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	5.7	1
17	A unified task recommendation strategy for realistic mobile crowdsourcing system. Theoretical Computer Science, 2021, 857, 43-58.	0.9	4
18	Achieving Fast Loop-Free Updates With Ingress Port in Software-Defined Networks. IEEE/ACM Transactions on Networking, 2021, 29, 1527-1539.	3.8	0

#	Article	IF	Citations
19	Preface: special issue on the annual international conference on combinatorial optimization and applications (COCOA). Journal of Combinatorial Optimization, 2021, 42, 339-339.	1.3	0
20	Mixed Priority Queue Scheduling Based on Spectral Clustering in Spatial Crowdsourcing. , 2021, , .		1
21	MatTrip: Multi-functional Attention-based Neural Network for Semantic Travel Route Recommendation. , 2021, , .		1
22	NETR-Tree: An Efficient Framework for Social-Based Time-Aware Spatial Keyword Query. , 2021, , .		1
23	Skia: Scalable and Efficient In-Memory Analytics for Big Spatial-Textual Data. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 2467-2480.	5.7	2
24	Energy Efficient Scheduling Algorithms for Sweep Coverage in Mobile Sensor Networks. IEEE Transactions on Mobile Computing, 2020, 19, 1332-1345.	5.8	18
25	Pache: A Packet Management Scheme of Cache in Data Center Networks. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 253-265.	5.6	5
26	DC-ECN: A machine-learning based dynamic threshold control scheme for ECN marking in DCN. Computer Communications, 2020, 150, 334-345.	5.1	12
27	ECN+: A marking-aware optimization for ECN threshold via per-Port in Data Center Networks. Journal of Network and Computer Applications, 2020, 152, 102504.	9.1	4
28	Popularity Prediction for Single Tweet based on Heterogeneous Bass Model. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	5.7	5
29	Joint Mind Modeling for Explanation Generation in Complex Human-Robot Collaborative Tasks. , 2020, , .		14
30	Scheduling Relaxed Loop-Free Updates Within Tight Lower Bounds in SDNs. IEEE/ACM Transactions on Networking, 2020, 28, 2503-2516.	3.8	3
31	Flexible Aggregate Nearest Neighbor Queries and its Keyword-Aware Variant on Road Networks. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	5.7	14
32	General framework, opportunities and challenges for crowdsourcing techniques: A Comprehensive survey. Journal of Systems and Software, 2020, 167, 110611.	4.5	46
33	Prediction of COVID-19 Outbreak in China and Optimal Return Date for University Students Based on Propagation Dynamics. Journal of Shanghai Jiaotong University (Science), 2020, 25, 140-146.	0.9	16
34	D2EA: Depict the Epidemic Picture of COVID-19. Journal of Shanghai Jiaotong University (Science), 2020, 25, 165-176.	0.9	4
35	CIRD-F: Spread and Influence of COVID-19 in China. Journal of Shanghai Jiaotong University (Science), 2020, 25, 147-156.	0.9	11
36	Preliminary Assessment of the COVID-19 Outbreak Using 3-Staged Model e-ISHR. Journal of Shanghai Jiaotong University (Science), 2020, 25, 157-164.	0.9	13

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37	Joint Pricing and Decision-Making for Heterogeneous User Demand in Cognitive Radio Networks. IEEE Transactions on Cybernetics, 2019, 49, 3873-3886.	9.5	6
38	A Constant Factor Approximation for d-Hop Connected Dominating Set in Three-Dimensional Wireless Networks. IEEE Transactions on Wireless Communications, 2019, 18, 4357-4367.	9.2	7
39	Towards Efficient Multi-Channel Data Broadcast for Multimedia Streams. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 2370-2383.	5.6	4
40	DeepHash. , 2019, , .		2
41	ERATO: Trading Noisy Aggregate Statistics over Private Correlated Data. IEEE Transactions on Knowledge and Data Engineering, 2019, , 1-1.	5.7	3
42	U^2-Tree: A Universal Two-Layer Distributed Indexing Scheme for Cloud Storage System. IEEE/ACM Transactions on Networking, 2019, 27, 201-213.	3.8	5
43	Enhancing data delivery in vehicular networks using dual-radio architecture. CCF Transactions on Networking, 2019, 1, 52-64.	1.1	1
44	Reinforced Reliable Worker Selection for Spatial Crowdsensing Networks. Lecture Notes in Computer Science, 2019, , 244-259.	1.3	1
45	AGREE: Attention-Based Tour Group Recommendation with Multi-modal Data. Lecture Notes in Computer Science, 2019, , 314-318.	1.3	7
46	An Efficient Ring-Based Metadata Management Policy for Large-Scale Distributed File Systems. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 1962-1974.	5.6	11
47	Timed Data Plane Update in Data Center Network. , 2019, , .		0
48	A Tight Lower Bound for Relaxed Loop-Free Updates in SDNs. , 2019, , .		3
49	IGATA: An Attraction-Based Online Task Recommendation Framework in Freemium-Crowdsourcing Platform. , 2019, , .		0
50	An efficient and scalable multi-dimensional indexing scheme for modular data centers. Data and Knowledge Engineering, 2019, 123, 101729.	3.4	0
51	Designing Incentive Mechanisms for Mobile Crowdsensing with Intermediaries. Wireless Communications and Mobile Computing, 2019, 2019, 1-14.	1.2	9
52	Algorithm Design and Analysis for Wireless Relay Network Deployment Problem. IEEE Transactions on Mobile Computing, 2019, 18, 2257-2269.	5.8	3
53	Achieving Data Truthfulness and Privacy Preservation in Data Markets. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 105-119.	5.7	30
54	Feature Evolution Based Multi-Task Learning for Collaborative Filtering with Social Trust. , 2019, , .		11

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55	Reachability for airline networks: fast algorithm for shortest path problem with time windows. Theoretical Computer Science, 2018, 749, 66-79.	0.9	10
56	Approximation Algorithms for Sweep Coverage Problem With Multiple Mobile Sensors. IEEE/ACM Transactions on Networking, 2018, 26, 990-1003.	3.8	37
57	NEMO: Novel and efficient multicast routing schemes for Hybrid Data Center Networks. Computer Networks, 2018, 138, 149-163.	5.1	8
58	Top-k Critical Vertices Query on Shortest Path. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1999-2012.	5.7	4
59	Improving Resource Utilization via Virtual Machine Placement in Data Center Networks. Mobile Networks and Applications, 2018, 23, 227-238.	3.3	21
60	Holmes: Tackling Data Sparsity for Truth Discovery in Location-Aware Mobile Crowdsensing. , 2018, , .		2
61	Binoclt: A New Binomial Classification Scheme for Long-Text Mining in Online Social Network. , 2018, , .		0
62	Flexible Aggregate Nearest Neighbor Queries in Road Networks. , 2018, , .		28
63	Provably Efficient Algorithms for VNF Routing Optimization. , 2018, , .		1
64	Shifter: A Consistent Multicast Routing Update Scheme in Software-Defined Networks. , 2018, , .		4
65	EPAB: Early Pattern Aware Bayesian Model for Social Content Popularity Prediction. , 2018, , .		3
66	D2-Tree: A Distributed Double-Layer Namespace Tree Partition Scheme for Metadata Management in Large-Scale Storage Systems. , 2018, , .		4
67	EPOC: A Survival Perspective Early Pattern Detection Model for Outbreak Cascades. Lecture Notes in Computer Science, 2018, , 336-351.	1.3	1
68	QITA: Quality Inference Based Task Assignment in Mobile Crowdsensing. Lecture Notes in Computer Science, 2018, , 363-370.	1.3	5
69	Minimizing mobile sensor movements to form a line K-coverage. Peer-to-Peer Networking and Applications, 2017, 10, 1063-1078.	3.9	7
70	On Designing Data Quality-Aware Truth Estimation and Surplus Sharing Method for Mobile Crowdsensing. IEEE Journal on Selected Areas in Communications, 2017, 35, 832-847.	14.0	129
71	A Novel Approximation for Multi-Hop Connected Clustering Problem in Wireless Networks. IEEE/ACM Transactions on Networking, 2017, 25, 2223-2234.	3.8	27
72	Coverage problem with uncertain properties in wireless sensor networks: A survey. Computer Networks, 2017, 123, 200-232.	5.1	82

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73	Trading Data in Good Faith: Integrating Truthfulness and Privacy Preservation in Data Markets. , 2017, , .		25
74	A Budget Feasible Incentive Mechanism for Weighted Coverage Maximization in Mobile Crowdsensing. IEEE Transactions on Mobile Computing, 2017, 16, 2392-2407.	5.8	92
75	Approximation Designs for Cooperative Relay Deployment in Wireless Networks. , 2017, , .		5
76	Free Talk in the Air: A Hierarchical Topology for 60 GHz Wireless Data Center Networks. IEEE/ACM Transactions on Networking, 2017, 25, 3723-3737.	3.8	15
77	BEEP: A Bayesian Perspective Early Stage Event Prediction Model for Online Social Networks. , 2017, , .		6
78	Energy Efficient Algorithms for k -Sink Minimum Movement Target Coverage Problem in Mobile Sensor Network. IEEE/ACM Transactions on Networking, 2017, 25, 3616-3627.	3.8	41
79	FM-Hawkes. , 2017, , .		8
80	Fault tolerant mechanism design for time coverage in crowdsensing system. , 2017, , .		4
81	Bandit User Selection Algorithm for Budgeted and Time-Limited Mobile Crowdsensing. , 2017, , .		3
82	A Constant-Factor Approximation for Bounded Task Allocation Problem in Crowdsourcing. , 2017, , .		8
83	A privacy-preserving combinatorial auction mechanism for spectrum redistribution. , 2017, , .		1
84	Towards cost-effective and budget-balanced task allocation in crowdsourcing systems. , 2017, , .		2
85	QoE-aware optimization for SVC-based adaptive streaming in D2D communications. , 2017, , .		2
86	AngleCut: A Ring-Based Hashing Scheme for Distributed Metadata Management. Lecture Notes in Computer Science, 2017, , 71-86.	1.3	7
87	Optimized Virtual Machine Placement with Traffic-Aware Balancing in Data Center Networks. Scientific Programming, 2016, 2016, 1-10.	0.7	9
88	TECH: A Thermal-Aware and Cost Efficient Mechanism for Colocation Demand Response. , 2016, , .		13
89	Efficient Scheduling Strategies for Mobile Sensors in Sweep Coverage Problem. , 2016, , .		15
90	Data Ferry Trajectory Planning for Sweep Coverage Problem with Multiple Mobile Sensors. , 2016, , .		9

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91	OR-Play: An Optimal Relay Placement Scheme for High-Quality Wireless Network Services. , 2016, , .		2
92	A PTAS to minimize mobile sensor movement for target coverage problem. , 2016, , .		15
93	A survey on barrier coverage with sensors. Frontiers of Computer Science, 2016, 10, 968-984.	2.4	25
94	SMe: explicit & implicit constrained-space probabilistic threshold range queries for moving objects. GeoInformatica, 2016, 20, 19-58.	2.7	6
95	Lowering the volatility: a practical cache allocation prediction and stability-oriented co-runner scheduling algorithms. Journal of Supercomputing, 2016, 72, 1126-1151.	3.6	1
96	The features, hardware, and architectures of data center networks: A survey. Journal of Parallel and Distributed Computing, 2016, 96, 45-74.	4.1	91
97	Efficient R-Tree Based Indexing Scheme for Server-Centric Cloud Storage System. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 1503-1517.	5.7	18
98	Global Optimization for Multi-Channel Wireless Data Broadcast with AH-Tree Indexing Scheme. IEEE Transactions on Computers, 2016, 65, 2104-2117.	3.4	7
99	Scheduling in Data Broadcasting. , 2016, , 1897-1905.		0
100	A Distributed Approximation for Multi-Hop Clustering Problem in Wireless Sensor Networks. , 2015, , .		1
101	Shorten the Trajectory of Mobile Sensors in Sweep Coverage Problem. , 2015, , .		14
102	Distributed Algorithm for Full-View Barrier Coverage with Rotatable Camera Sensors. , 2015, , .		13
103	Some Transformation Methods on Probabilistic Model for Crowdsensing Networks. , 2015, , .		0
104	Design and optimization for distributed indexing scheme in switch-centric cloud storage system. , 2015, , .		6
105	WhiFind: A Matrix Completion Approach for Indoor White Space Identification. , 2015, , .		0
106	Sheriff: A Regional Pre-alert Management Scheme in Data Center Networks. , 2015, , .		1
107	A Route Scheduling Algorithm for the Sweep Coverage Problem. , 2015, , .		8
108	A Novel Approximation for Multi-hop Connected Clustering Problem in Wireless Sensor Networks. , 2015, , .		1

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109	FT-INDEX: A distributed indexing scheme for switch-centric cloud storage system. , 2015, , .		9
110	Indexing Multi-dimensional Data in Modular Data Centers. Lecture Notes in Computer Science, 2015, , 304-319.	1.3	5
111	A better approximation for constructing virtual backbone in 3D wireless ad-hoc networks. Theoretical Computer Science, 2015, 607, 363-380.	0.9	8
112	Full-view barrier coverage with rotatable camera sensors. , 2014, , .		5
113	SOAR: Strategy-proof auction mechanisms for distributed cloud bandwidth reservation. , 2014, , .		22
114	SphericalMesh: A novel and flexible network topology for 60GHz-based wireless data centers. , 2014, , .		6
115	A New Greedy Algorithm for D-Hop Connected Dominating Set. , 2014, , .		0
116	NICE: Network-aware VM Consolidation scheme for Energy Conservation in Data Centers. , 2014, , .		14
117	DCP: An efficient and distributed data center cache protocol with Fat-Tree topology. , 2014, , .		2
118	Evaluation and comparison of various indexing schemes in single-channel broadcast communication environment. Knowledge and Information Systems, 2014, 40, 375-409.	3.2	10
119	An efficient distributed node clustering protocol for high dimensional large-scale wireless sensor networks. , 2014, , .		5
120	A truthful auction mechanism for channel allocation in multi-radio, multi-channel non-cooperative wireless networks. Personal and Ubiquitous Computing, 2014, 18, 925-937.	2.8	3
121	Shorten the Trajectory of Mobile Sensors in Sweep Coverage Problem. , 2014, , .		0
122	A Distributed Approximation for Multi-Hop Clustering Problem in Wireless Sensor Networks. , 2014, , .		0
123	Efficient R-Tree Based Indexing for Cloud Storage System with Dual-Port Servers. Lecture Notes in Computer Science, 2014, , 375-391.	1.3	5
124	Scheduling in Data Broadcasting. , 2014, , 1-11.		0
125	High performance energy efficient multi-channel wireless data broadcasting system. , 2013, , .		8
126	Energy-efficient IPTV simulcast over fixed WiMAX access systems. , 2013, , .		0

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127	Algebraic data retrieval algorithms for multi-channel wireless data broadcast. Theoretical Computer Science, 2013, 497, 123-130.	0.9	8
128	Dynamic correlative VM placement for quality-assured cloud service. , 2013, , .		13
129	SETMES. , 2013, , .		7
130	BREW: A bandwidth reservation protocol for multirate anypath routing in wireless mesh networks. , 2013, , .		2
131	Distributed AH-Tree Based Index Technology for Multi-channel Wireless Data Broadcast. Lecture Notes in Computer Science, 2013, , 176-192.	1.3	5
132	A distributed design for minimum 2-Connected m-Dominating Set in bidirectional wireless ad-hoc networks. Tsinghua Science and Technology, 2012, 17, 553-566.	6.1	1
133	PHED: Pre-Handshaking Neighbor Discovery Protocols in full duplex wireless ad hoc networks. , 2012, , .		2
134	A constant-factor approximation for d-hop connected dominating sets in unit disk graph. International Journal of Sensor Networks, 2012, 12, 125.	0.4	13
135	A Novel Multi-Channel Data Broadcast Scheme for Multimedia Database Systems. , 2012, , .		2
136	An exact algorithm for minimum CDS with shortest path constraint in wireless networks. Optimization Letters, 2011, 5, 297-306.	1.6	22
137	The Latest Researches on Dominating Problems in Wireless Sensor Network. , 2010, , 197-226.		2
138	A PTAS for minimum d-hop connected dominating set in growth-bounded graphs. Optimization Letters, 2010, 4, 321-333.	1.6	16
139	A framework of distributed indexing and data dissemination in large scale wireless sensor networks. Optimization Letters, 2010, 4, 335-345.	1.6	3
140	Wireless networking, dominating and packing. Optimization Letters, 2010, 4, 347-358.	1.6	21
141	Efficient Parallel Data Retrieval Protocols with MIMO Antennae for Data Broadcast in 4G Wireless Communications. Lecture Notes in Computer Science, 2010, , 80-95.	1.3	19
142	QoS Aware Routing in Wireless Sensor Networks. , 2010, , 99-115.		0
143	ANALYSIS ON THEORETICAL BOUNDS FOR APPROXIMATING DOMINATING SET PROBLEMS. Discrete Mathematics, Algorithms and Applications, 2009, 01, 71-84.	0.6	56
144	A better constant-factor approximation for weighted dominating set in unit disk graph. Journal of Combinatorial Optimization, 2009, 18, 179-194.	1.3	72

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145	Algorithms for connected set cover problem and fault-tolerant connected set cover problem. Theoretical Computer Science, 2009, 410, 812-817.	0.9	29
146	A PTAS for minimum connected dominating set in 3-dimensional Wireless sensor networks. Journal of Global Optimization, 2009, 45, 451-458.	1.8	46