

Guohong Cao

List of Publications by Year in descending order

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155
papers

7,603
citations

101496

36
h-index

106281

65
g-index

155
all docs

155
docs citations

155
times ranked

4931
citing authors

#	ARTICLE	IF	CITATIONS
1	VADD: Vehicle-Assisted Data Delivery in Vehicular <i>Ad Hoc</i> Networks. IEEE Transactions on Vehicular Technology, 2008, 57, 1910-1922.	3.9	646
2	Supporting cooperative caching in ad hoc networks. IEEE Transactions on Mobile Computing, 2006, 5, 77-89.	3.9	398
3	Achieving k-anonymity in privacy-aware location-based services. , 2014, , .		301
4	Movement-assisted sensor deployment. , 0, , .		249
5	rDCF: A Relay-Enabled Medium Access Control Protocol for Wireless Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2006, 5, 1201-1214.	3.9	220
6	Bidding Protocols for Deploying Mobile Sensors. IEEE Transactions on Mobile Computing, 2007, 6, 563-576.	3.9	211
7	Data Pouring and Buffering on the Road: A New Data Dissemination Paradigm for Vehicular <i>Ad Hoc</i> Networks. IEEE Transactions on Vehicular Technology, 2007, 56, 3266-3277.	3.9	163
8	Enhancing privacy through caching in location-based services. , 2015, , .		163
9	A scalable low-latency cache invalidation strategy for mobile environments. IEEE Transactions on Knowledge and Data Engineering, 2003, 15, 1251-1265.	4.0	155
10	User-centric data dissemination in disruption tolerant networks. , 2011, , .		150
11	Multicast Authentication in the Smart Grid With One-Time Signature. IEEE Transactions on Smart Grid, 2011, 2, 686-696.	6.2	143
12	Cooperative cache-based data access in ad hoc networks. Computer, 2004, 37, 32-39.	1.2	140
13	An Incentive Framework for Cellular Traffic Offloading. IEEE Transactions on Mobile Computing, 2014, 13, 541-555.	3.9	139
14	On scheduling vehicle-roadside data access. , 2007, , .		127
15	A bidding protocol for deploying mobile sensors. , 0, , .		117
16	On full-view coverage in camera sensor networks. , 2011, , .		115
17	Multi-Agent Reinforcement Learning for Efficient Content Caching in Mobile D2D Networks. IEEE Transactions on Wireless Communications, 2019, 18, 1610-1622.	6.1	113
18	Efficient and Privacy-Aware Data Aggregation in Mobile Sensing. IEEE Transactions on Dependable and Secure Computing, 2014, 11, 115-129.	3.7	105

#	ARTICLE	IF	CITATIONS
19	Proactive power-aware cache management for mobile computing systems. IEEE Transactions on Computers, 2002, 51, 608-621.	2.4	104
20	Social-Aware Multicast in Disruption-Tolerant Networks. IEEE/ACM Transactions on Networking, 2012, 20, 1553-1566.	2.6	104
21	On Exploiting Transient Social Contact Patterns for Data Forwarding in Delay-Tolerant Networks. IEEE Transactions on Mobile Computing, 2013, 12, 151-165.	3.9	98
22	APPLAUS: A Privacy-Preserving Location Proof Updating System for location-based services. , 2011, , .		89
23	Cooperative Caching in Wireless P2P Networks: Design, Implementation, and Evaluation. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 229-241.	4.0	88
24	Distributed Software-based Attestation for Node Compromise Detection in Sensor Networks. , 2007, , .		87
25	Algorithms and Applications for Community Detection in Weighted Networks. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 2916-2926.	4.0	85
26	Optimizing tree reconfiguration for mobile target tracking in sensor networks. , 0, , .		78
27	Positive Network Assortativity of Influenza Vaccination at a High School: Implications for Outbreak Risk and Herd Immunity. PLoS ONE, 2014, 9, e87042.	1.1	76
28	Energy-Efficient Computation Offloading for Multicore-Based Mobile Devices. , 2018, , .		72
29	Group rekeying for filtering false data in sensor networks: a predistribution and local collaboration-based approach. , 0, , .		70
30	V-PADA: Vehicle-Platoon-Aware Data Access in VANETs. IEEE Transactions on Vehicular Technology, 2011, 60, 2326-2339.	3.9	69
31	Providing Efficient Privacy-Aware Incentives for Mobile Sensing. , 2014, , .		69
32	Spatial-Temporal Coverage Optimization in Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2011, 10, 465-478.	3.9	66
33	Efficient and privacy-preserving data aggregation in mobile sensing. , 2012, , .		66
34	Cooperative Caching for Efficient Data Access in Disruption Tolerant Networks. IEEE Transactions on Mobile Computing, 2014, 13, 611-625.	3.9	65
35	Service Scheduling of Vehicle-Roadside Data Access. Mobile Networks and Applications, 2010, 15, 83-96.	2.2	63
36	Energy-aware video streaming on smartphones. , 2015, , .		62

#	ARTICLE	IF	CITATIONS
37	Roadcast. Mobile Computing and Communications Review, 2010, 13, 1-14.	1.7	61
38	Supporting Cooperative Caching in Disruption Tolerant Networks. , 2011, , .		61
39	Real-time processing of range-monitoring queries in heterogeneous mobile databases. IEEE Transactions on Mobile Computing, 2006, 5, 931-942.	3.9	59
40	Toward Privacy Preserving and Collusion Resistance in a Location Proof Updating System. IEEE Transactions on Mobile Computing, 2013, 12, 51-64.	3.9	55
41	Mitigating Performance Degradation in Congested Sensor Networks. IEEE Transactions on Mobile Computing, 2008, 7, 682-697.	3.9	54
42	On exploiting transient contact patterns for data forwarding in Delay Tolerant Networks. , 2010, , .		54
43	Distributed Monitoring and Aggregation in Wireless Sensor Networks. , 2010, , .		49
44	Supporting cooperative caching in ad hoc networks. , 0, , .		48
45	Distributed fault-tolerant channel allocation for cellular networks. IEEE Journal on Selected Areas in Communications, 2000, 18, 1326-1337.	9.7	47
46	Data Dissemination with Ring-Based Index for Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2007, 6, 832-847.	3.9	45
47	Data dissemination with ring-based index for wireless sensor networks. , 0, , .		44
48	Adaptive Power-Aware Prefetch in Wireless Networks. IEEE Transactions on Wireless Communications, 2004, 3, 1648-1658.	6.1	44
49	Roadcast: A Popularity Aware Content Sharing Scheme in VANETs. , 2009, , .		44
50	Reducing the Delay and Power Consumption of Web Browsing on Smartphones in 3G Networks. , 2011, , .		44
51	Energy-Aware Web Browsing on Smartphones. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 761-774.	4.0	43
52	SmartPhoto: A Resource-Aware Crowdsourcing Approach for Image Sensing with Smartphones. IEEE Transactions on Mobile Computing, 2016, 15, 1249-1263.	3.9	43
53	Î³DCF: A relay-enabled medium access control protocol for wireless ad hoc networks. , 0, , .		42
54	Energy-Efficient Computation Offloading in Cellular Networks. , 2015, , .		42

#	ARTICLE	IF	CITATIONS
55	TeamPhone: Networking SmartPhones for Disaster Recovery. IEEE Transactions on Mobile Computing, 2017, 16, 3554-3567.	3.9	42
56	Popularity-aware caching increases the capacity of wireless networks. , 2017, , .		42
57	On Improving the Performance of IEEE 802.11 with Relay-Enabled PCF. Mobile Networks and Applications, 2004, 9, 423-434.	2.2	41
58	Towards Information Diffusion in Mobile Social Networks. IEEE Transactions on Mobile Computing, 2016, 15, 1292-1304.	3.9	41
59	IP Address Passing for VANETs. , 2008, , .		40
60	Transient Community Detection and Its Application to Data Forwarding in Delay Tolerant Networks. IEEE/ACM Transactions on Networking, 2017, 25, 2829-2843.	2.6	40
61	Minimizing Probing Cost and Achieving Identifiability in Probe-Based Network Link Monitoring. IEEE Transactions on Computers, 2013, 62, 510-523.	2.4	38
62	Energy optimization through traffic aggregation in wireless networks. , 2014, , .		38
63	Providing Privacy-Aware Incentives in Mobile Sensing Systems. IEEE Transactions on Mobile Computing, 2016, 15, 1485-1498.	3.9	38
64	FastVA: Deep Learning Video Analytics Through Edge Processing and NPU in Mobile. , 2020, , .		38
65	Proxy-based sensor deployment for mobile sensor networks. , 0, , .		37
66	Quality-Aware Traffic Offloading in Wireless Networks. IEEE Transactions on Mobile Computing, 2017, 16, 3182-3195.	3.9	37
67	HideMe: Privacy-Preserving Photo Sharing on Social Networks. , 2019, , .		34
68	Photo crowdsourcing for area coverage in resource constrained environments. , 2017, , .		32
69	Cross-layer Enhanced Source Location Privacy in Sensor Networks. , 2009, , .		31
70	pDCS: Security and Privacy Support for Data-Centric Sensor Networks. IEEE Transactions on Mobile Computing, 2009, 8, 1023-1038.	3.9	29
71	Distributed Maintenance of Cache Freshness in Opportunistic Mobile Networks. , 2012, , .		29
72	Movement-Based Incentive for Crowdsourcing. IEEE Transactions on Vehicular Technology, 2017, 66, 7223-7233.	3.9	29

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73	Expertise-Aware Truth Analysis and Task Allocation in Mobile Crowdsourcing. IEEE Transactions on Mobile Computing, 2021, 20, 1001-1016.	3.9	29
74	Performance comparison of cache invalidation strategies for Internet-based mobile ad hoc networks. , 0, , .		28
75	Dynamic proxy tree-based data dissemination schemes for wireless sensor networks. Wireless Networks, 2007, 13, 583-595.	2.0	27
76	Who Will Attend? -- Predicting Event Attendance in Event-Based Social Network. , 2015, , .		27
77	Expertise-Aware Truth Analysis and Task Allocation in Mobile Crowdsourcing. , 2017, , .		27
78	Minimizing service delay in directional sensor networks. , 2011, , .		24
79	A generalized target-driven cache replacement policy for mobile environments. Journal of Parallel and Distributed Computing, 2005, 65, 583-594.	2.7	23
80	Cache invalidation strategies for internet-based mobile ad hoc networks. Computer Communications, 2007, 30, 1854-1869.	3.1	23
81	On supporting power-efficient streaming applications in wireless environments. IEEE Transactions on Mobile Computing, 2005, 4, 391-403.	3.9	21
82	On Cooperative Caching in Wireless P2P Networks. , 2008, , .		21
83	Forwarding redundancy in opportunistic mobile networks: Investigation and elimination. , 2014, , .		21
84	Dynamic proxy tree-based data dissemination schemes for wireless sensor networks. , 0, , .		20
85	Routing in intermittently connected sensor networks. Network Protocols (ICNP), Proceedings of the IEEE International Conference on, 2008, , .	0.0	20
86	Providing privacy-aware incentives for mobile sensing. , 2013, , .		20
87	Improving Bluetooth network performance through a time-slot leasing approach. , 0, , .		19
88	Balancing the tradeoffs between data accessibility and query delay in ad hoc networks. , 2004, , .		19
89	A generalized target-driven cache replacement policy for mobile environments. , 0, , .		18
90	Processing range-monitoring queries on heterogeneous mobile objects. , 0, , .		18

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91	Mobility-Assisted Energy-Aware User Contact Detection in Mobile Social Networks. , 2013, , .		18
92	Efficient Data Forwarding in Mobile Social Networks with Diverse Connectivity Characteristics. , 2014, , .		18
93	Task Allocation for Mobile Cloud Computing in Heterogeneous Wireless Networks. , 2015, , .		18
94	Stretch-optimal scheduling for on-demand data broadcasts. , 0, , .		17
95	Title is missing!. Wireless Networks, 2003, 9, 131-142.	2.0	17
96	A power-aware and QoS-aware service model on wireless networks. , 0, , .		17
97	Robust Topology Control in Multi-Hop Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2014, 13, 2634-2647.	3.9	17
98	Deep Reinforcement Learning-Based Server Selection for Mobile Edge Computing. IEEE Transactions on Vehicular Technology, 2021, 70, 13351-13363.	3.9	17
99	DUP: Dynamic-Tree Based Update Propagation in Peer-to-Peer Networks. , 0, , .		16
100	Sensor Relocation with Mobile Sensors: Design, Implementation, and Evaluation. , 2007, , .		16
101	Preserving Location Privacy in Ride-Hailing Service. , 2018, , .		16
102	Spectrum-aware data replication in intermittently connected cognitive radio networks. , 2014, , .		15
103	Cache increases the capacity of wireless networks. , 2016, , .		15
104	Contact Duration Aware Data Replication in DTNs with Licensed and Unlicensed Spectrum. IEEE Transactions on Mobile Computing, 2016, 15, 803-816.	3.9	15
105	Energy-Aware CPU Frequency Scaling for Mobile Video Streaming. IEEE Transactions on Mobile Computing, 2019, 18, 2536-2548.	3.9	15
106	Agent-based route optimization for mobile IP. , 0, , .		14
107	Balancing the Trade-Offs between Query Delay and Data Availability in MANETs. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 643-650.	4.0	14
108	MLGuard: Mitigating Poisoning Attacks in Privacy Preserving Distributed Collaborative Learning. , 2020, , .		14

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109	Power-aware prefetch in mobile environments. , 0, , .		13
110	A flexible scatternet-wide scheduling algorithm for Bluetooth networks. , 0, , .		13
111	Robust topology control in multi-hop cognitive radio networks. , 2012, , .		13
112	Deep Learning Video Analytics Through Edge Computing and Neural Processing Units on Mobile Devices. IEEE Transactions on Mobile Computing, 2021, , 1-1.	3.9	13
113	An adaptive power-conserving service discipline for Bluetooth. , 0, , .		12
114	Characterizing Data Services in a 3G Network: Usage, Mobility and Access Issues. , 2011, , .		11
115	Optimal Recovery from Large-Scale Failures in IP Networks. , 2012, , .		11
116	Prefetch-Based Energy Optimization on Smartphones. IEEE Transactions on Wireless Communications, 2018, 17, 693-706.	6.1	11
117	On improving service differentiation under bursty data traffic in wireless networks. , 0, , .		10
118	A unified bandwidth reservation and admission control mechanism for QoS provisioning in cellular networks. Wireless Communications and Mobile Computing, 2004, 4, 3-18.	0.8	10
119	Context-Aware Task Offloading for Wearable Devices. , 2017, , .		10
120	Context-Aware and Energy-Aware Video Streaming on Smartphones. IEEE Transactions on Mobile Computing, 2022, 21, 862-877.	3.9	10
121	Consistency of Cooperative Caching in Mobile Peer-to-Peer Systems over MANET. , 0, , .		9
122	Forwarding Redundancy in Opportunistic Mobile Networks: Investigation, Elimination and Exploitation. IEEE Transactions on Mobile Computing, 2015, 14, 714-727.	3.9	9
123	Delay-Constrained Caching in Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2016, 15, 627-640.	3.9	9
124	A differential bandwidth reservation policy for multimedia wireless networks. , 0, , .		8
125	Mobile Ad Hoc and Sensor Systems. International Journal of Wireless Information Networks, 2006, 13, 261-262.	1.8	8
126	Minimizing Probing Cost and Achieving Identifiability in Network Link Monitoring. , 2010, , .		7

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127	Transient community detection and its application to data forwarding in delay tolerant networks. , 2013, , .		7
128	Proactively Placing Static Relays With Social-Link Awareness in Mobile Social Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 1903-1915.	3.9	7
129	Online VBR video traffic smoothing. , 0, , .		6
130	An energy efficient framework for mobile target tracking in sensor networks. , 0, , .		6
131	Cache-miss-initiated prefetch in mobile environments. , 0, , .		6
132	Targeted vaccination based on a wireless sensor system. , 2015, , .		6
133	Characterizing and optimizing background data transfers on smartwatches. , 2017, , .		6
134	Mitigating Stealthy False Data Injection Attacks Against State Estimation in Smart Grid. , 2018, , .		6
135	Distributed Software-based Attestation for Node Compromise Detection in Sensor Networks. Proceedings of the IEEE Symposium on Reliable Distributed Systems, 2007, , .	0.0	6
136	Deep Learning Video Analytics Through Online Learning Based Edge Computing. IEEE Transactions on Wireless Communications, 2022, 21, 8193-8204.	6.1	6
137	Deep Learning on Mobile Devices Through Neural Processing Units and Edge Computing. , 2022, , .		6
138	Data Collection Using RFID and a Mobile Reader. , 2008, , .		5
139	Compromise-resilient anti-jamming communication in wireless sensor networks. Wireless Networks, 2011, 17, 1513-1527.	2.0	5
140	Reliable multicast via satellites. , 0, , .		4
141	Mobile multi-layered IPsec. Wireless Networks, 2008, 14, 895-913.	2.0	4
142	Detecting and localizing large-scale router failures using active probes. , 2011, , .		4
143	Privacy-aware and trustworthy data aggregation in mobile sensing. , 2015, , .		4
144	An admission control scheme for QoS-sensitive cellular networks. , 0, , .		3

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145	Mobile multi-layered IPsec. , 0, , .		3
146	Improving Drive-Thru Access to Roadside Infrastructure by Lightweight Relay. , 2007, , .		3
147	On interest locality in content-based routing for large-scale MANETs. , 2009, , .		3
148	Energy-Aware Advertising Through Quality-Aware Prefetching on Smartphones. , 2017, , .		3
149	A Framework for Personalized Location Privacy. IEEE Transactions on Mobile Computing, 2022, 21, 3071-3083.	3.9	3
150	Demo: Sensor Relocation with Mobile Sensors. , 2007, , .		2
151	Cross-Layer Approach for Minimizing Routing Disruption in IP Networks. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 1659-1669.	4.0	2
152	Resource-Aware Approaches for Truth Analysis in Crowdsourcing. , 2016, , .		2
153	Correction to "Mutable checkpoints: a new checkpointing approach for mobile computing systems". IEEE Transactions on Parallel and Distributed Systems, 2002, 13, 527-527.	4.0	1
154	Minimum Latency Data Diffusion in Intermittently Connected Mobile Networks. , 2012, , .		1
155	A cross-layer approach for IP network protection. , 2012, , .		1