

Guohong Cao

List of Publications by Year in descending order

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155
papers

7,603
citations

101496

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106281

65
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155
all docs

155
docs citations

155
times ranked

4931
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Context-Aware and Energy-Aware Video Streaming on Smartphones. IEEE Transactions on Mobile Computing, 2022, 21, 862-877. | 3.9 | 10 |
| 2 | A Framework for Personalized Location Privacy. IEEE Transactions on Mobile Computing, 2022, 21, 3071-3083. | 3.9 | 3 |
| 3 | Deep Learning Video Analytics Through Online Learning Based Edge Computing. IEEE Transactions on Wireless Communications, 2022, 21, 8193-8204. | 6.1 | 6 |
| 4 | Deep Learning on Mobile Devices Through Neural Processing Units and Edge Computing. , 2022, , . | | 6 |
| 5 | Expertise-Aware Truth Analysis and Task Allocation in Mobile Crowdsourcing. IEEE Transactions on Mobile Computing, 2021, 20, 1001-1016. | 3.9 | 29 |
| 6 | 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 |
| 7 | Deep Reinforcement Learning-Based Server Selection for Mobile Edge Computing. IEEE Transactions on Vehicular Technology, 2021, 70, 13351-13363. | 3.9 | 17 |
| 8 | FastVA: Deep Learning Video Analytics Through Edge Processing and NPU in Mobile. , 2020, , . | | 38 |
| 9 | MLGuard: Mitigating Poisoning Attacks in Privacy Preserving Distributed Collaborative Learning. , 2020, , . | | 14 |
| 10 | Multi-Agent Reinforcement Learning for Efficient Content Caching in Mobile D2D Networks. IEEE Transactions on Wireless Communications, 2019, 18, 1610-1622. | 6.1 | 113 |
| 11 | HideMe: Privacy-Preserving Photo Sharing on Social Networks. , 2019, , . | | 34 |
| 12 | Proactively Placing Static Relays With Social-Link Awareness in Mobile Social Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 1903-1915. | 3.9 | 7 |
| 13 | Energy-Aware CPU Frequency Scaling for Mobile Video Streaming. IEEE Transactions on Mobile Computing, 2019, 18, 2536-2548. | 3.9 | 15 |
| 14 | Prefetch-Based Energy Optimization on Smartphones. IEEE Transactions on Wireless Communications, 2018, 17, 693-706. | 6.1 | 11 |
| 15 | Energy-Efficient Computation Offloading for Multicore-Based Mobile Devices. , 2018, , . | | 72 |
| 16 | Mitigating Stealthy False Data Injection Attacks Against State Estimation in Smart Grid. , 2018, , . | | 6 |
| 17 | Preserving Location Privacy in Ride-Hailing Service. , 2018, , . | | 16 |
| 18 | Movement-Based Incentive for Crowdsourcing. IEEE Transactions on Vehicular Technology, 2017, 66, 7223-7233. | 3.9 | 29 |

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| 19 | TeamPhone: Networking SmartPhones for Disaster Recovery. IEEE Transactions on Mobile Computing, 2017, 16, 3554-3567. | 3.9 | 42 |
| 20 | 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 |
| 21 | Quality-Aware Traffic Offloading in Wireless Networks. IEEE Transactions on Mobile Computing, 2017, 16, 3182-3195. | 3.9 | 37 |
| 22 | Context-Aware Task Offloading for Wearable Devices. , 2017, , . | | 10 |
| 23 | Expertise-Aware Truth Analysis and Task Allocation in Mobile Crowdsourcing. , 2017, , . | | 27 |
| 24 | Popularity-aware caching increases the capacity of wireless networks. , 2017, , . | | 42 |
| 25 | Characterizing and optimizing background data transfers on smartwatches. , 2017, , . | | 6 |
| 26 | Photo crowdsourcing for area coverage in resource constrained environments. , 2017, , . | | 32 |
| 27 | Energy-Aware Advertising Through Quality-Aware Prefetching on Smartphones. , 2017, , . | | 3 |
| 28 | Resource-Aware Approaches for Truth Analysis in Crowdsourcing. , 2016, , . | | 2 |
| 29 | Cache increases the capacity of wireless networks. , 2016, , . | | 15 |
| 30 | Delay-Constrained Caching in Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2016, 15, 627-640. | 3.9 | 9 |
| 31 | Providing Privacy-Aware Incentives in Mobile Sensing Systems. IEEE Transactions on Mobile Computing, 2016, 15, 1485-1498. | 3.9 | 38 |
| 32 | SmartPhoto: A Resource-Aware Crowdsourcing Approach for Image Sensing with Smartphones. IEEE Transactions on Mobile Computing, 2016, 15, 1249-1263. | 3.9 | 43 |
| 33 | Towards Information Diffusion in Mobile Social Networks. IEEE Transactions on Mobile Computing, 2016, 15, 1292-1304. | 3.9 | 41 |
| 34 | Contact Duration Aware Data Replication in DTNs with Licensed and Unlicensed Spectrum. IEEE Transactions on Mobile Computing, 2016, 15, 803-816. | 3.9 | 15 |
| 35 | Energy-Efficient Computation Offloading in Cellular Networks. , 2015, , . | | 42 |
| 36 | Who Will Attend? -- Predicting Event Attendance in Event-Based Social Network. , 2015, , . | | 27 |

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| 37 | Privacy-aware and trustworthy data aggregation in mobile sensing. , 2015, , . | | 4 |
| 38 | Targeted vaccination based on a wireless sensor system. , 2015, , . | | 6 |
| 39 | Enhancing privacy through caching in location-based services. , 2015, , . | | 163 |
| 40 | Algorithms and Applications for Community Detection in Weighted Networks. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 2916-2926. | 4.0 | 85 |
| 41 | Energy-aware video streaming on smartphones. , 2015, , . | | 62 |
| 42 | Task Allocation for Mobile Cloud Computing in Heterogeneous Wireless Networks. , 2015, , . | | 18 |
| 43 | Forwarding Redundancy in Opportunistic Mobile Networks: Investigation, Elimination and Exploitation. IEEE Transactions on Mobile Computing, 2015, 14, 714-727. | 3.9 | 9 |
| 44 | Energy-Aware Web Browsing on Smartphones. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 761-774. | 4.0 | 43 |
| 45 | 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 |
| 46 | Spectrum-aware data replication in intermittently connected cognitive radio networks. , 2014, , . | | 15 |
| 47 | Providing Efficient Privacy-Aware Incentives for Mobile Sensing. , 2014, , . | | 69 |
| 48 | Forwarding redundancy in opportunistic mobile networks: Investigation and elimination. , 2014, , . | | 21 |
| 49 | Achieving k-anonymity in privacy-aware location-based services. , 2014, , . | | 301 |
| 50 | Efficient and Privacy-Aware Data Aggregation in Mobile Sensing. IEEE Transactions on Dependable and Secure Computing, 2014, 11, 115-129. | 3.7 | 105 |
| 51 | An Incentive Framework for Cellular Traffic Offloading. IEEE Transactions on Mobile Computing, 2014, 13, 541-555. | 3.9 | 139 |
| 52 | Efficient Data Forwarding in Mobile Social Networks with Diverse Connectivity Characteristics. , 2014, , . | | 18 |
| 53 | Robust Topology Control in Multi-Hop Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2014, 13, 2634-2647. | 3.9 | 17 |
| 54 | Energy optimization through traffic aggregation in wireless networks. , 2014, , . | | 38 |

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| 55 | Cross-Layer Approach for Minimizing Routing Disruption in IP Networks. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 1659-1669. | 4.0 | 2 |
| 56 | Cooperative Caching for Efficient Data Access in Disruption Tolerant Networks. IEEE Transactions on Mobile Computing, 2014, 13, 611-625. | 3.9 | 65 |
| 57 | Providing privacy-aware incentives for mobile sensing. , 2013, , . | | 20 |
| 58 | Transient community detection and its application to data forwarding in delay tolerant networks. , 2013, , . | | 7 |
| 59 | Minimizing Probing Cost and Achieving Identifiability in Probe-Based Network Link Monitoring. IEEE Transactions on Computers, 2013, 62, 510-523. | 2.4 | 38 |
| 60 | 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 |
| 61 | Toward Privacy Preserving and Collusion Resistance in a Location Proof Updating System. IEEE Transactions on Mobile Computing, 2013, 12, 51-64. | 3.9 | 55 |
| 62 | Mobility-Assisted Energy-Aware User Contact Detection in Mobile Social Networks. , 2013, , . | | 18 |
| 63 | Robust topology control in multi-hop cognitive radio networks. , 2012, , . | | 13 |
| 64 | Minimum Latency Data Diffusion in Intermittently Connected Mobile Networks. , 2012, , . | | 1 |
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| 66 | Optimal Recovery from Large-Scale Failures in IP Networks. , 2012, , . | | 11 |
| 67 | Distributed Maintenance of Cache Freshness in Opportunistic Mobile Networks. , 2012, , . | | 29 |
| 68 | Efficient and privacy-preserving data aggregation in mobile sensing. , 2012, , . | | 66 |
| 69 | A cross-layer approach for IP network protection. , 2012, , . | | 1 |
| 70 | 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 |
| 71 | Spatial-Temporal Coverage Optimization in Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2011, 10, 465-478. | 3.9 | 66 |
| 72 | Supporting Cooperative Caching in Disruption Tolerant Networks. , 2011, , . | | 61 |

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| 73 | APPLAUS: A Privacy-Preserving Location Proof Updating System for location-based services. , 2011, , . | | 89 |
| 74 | Reducing the Delay and Power Consumption of Web Browsing on Smartphones in 3G Networks. , 2011, , . | | 44 |
| 75 | Multicast Authentication in the Smart Grid With One-Time Signature. IEEE Transactions on Smart Grid, 2011, 2, 686-696. | 6.2 | 143 |
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| 81 | On full-view coverage in camera sensor networks. , 2011, , . | | 115 |
| 82 | Minimizing service delay in directional sensor networks. , 2011, , . | | 24 |
| 83 | Service Scheduling of Vehicle-Roadside Data Access. Mobile Networks and Applications, 2010, 15, 83-96. | 2.2 | 63 |
| 84 | Cooperative Caching in Wireless P2P Networks: Design, Implementation, and Evaluation. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 229-241. | 4.0 | 88 |
| 85 | On exploiting transient contact patterns for data forwarding in Delay Tolerant Networks. , 2010, , . | | 54 |
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| 87 | Distributed Monitoring and Aggregation in Wireless Sensor Networks. , 2010, , . | | 49 |
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| 91 | On interest locality in content-based routing for large-scale MANETs. , 2009, , . | | 3 |
| 92 | pDCS: Security and Privacy Support for Data-Centric Sensor Networks. IEEE Transactions on Mobile Computing, 2009, 8, 1023-1038. | 3.9 | 29 |
| 93 | Mobile multi-layered IPsec. Wireless Networks, 2008, 14, 895-913. | 2.0 | 4 |
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| 97 | On Cooperative Caching in Wireless P2P Networks. , 2008, , . | | 21 |
| 98 | IP Address Passing for VANETs. , 2008, , . | | 40 |
| 99 | Data Collection Using RFID and a Mobile Reader. , 2008, , . | | 5 |
| 100 | On scheduling vehicle-roadside data access. , 2007, , . | | 127 |
| 101 | Demo: Sensor Relocation with Mobile Sensors. , 2007, , . | | 2 |
| 102 | Improving Drive-Thru Access to Roadside Infrastructure by Lightweight Relay. , 2007, , . | | 3 |
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| 111 | Real-time processing of range-monitoring queries in heterogeneous mobile databases. <i>IEEE Transactions on Mobile Computing</i> , 2006, 5, 931-942. | 3.9 | 59 |
| 112 | Supporting cooperative caching in ad hoc networks. <i>IEEE Transactions on Mobile Computing</i> , 2006, 5, 77-89. | 3.9 | 398 |
| 113 | rDCF: A Relay-Enabled Medium Access Control Protocol for Wireless Ad Hoc Networks. <i>IEEE Transactions on Mobile Computing</i> , 2006, 5, 1201-1214. | 3.9 | 220 |
| 114 | Mobile Ad Hoc and Sensor Systems. <i>International Journal of Wireless Information Networks</i> , 2006, 13, 261-262. | 1.8 | 8 |
| 115 | A generalized target-driven cache replacement policy for mobile environments. <i>Journal of Parallel and Distributed Computing</i> , 2005, 65, 583-594. | 2.7 | 23 |
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| 126 | Distributed fault-tolerant channel allocation for cellular networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2000, 18, 1326-1337. | 9.7 | 47 |

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| 129 | Stretch-optimal scheduling for on-demand data broadcasts. , 0, , . | | 17 |
| 130 | Reliable multicast via satellites. , 0, , . | | 4 |
| 131 | Agent-based route optimization for mobile IP. , 0, , . | | 14 |
| 132 | A differential bandwidth reservation policy for multimedia wireless networks. , 0, , . | | 8 |
| 133 | An adaptive power-conserving service discipline for Bluetooth. , 0, , . | | 12 |
| 134 | An admission control scheme for QoS-sensitive cellular networks. , 0, , . | | 3 |
| 135 | Power-aware prefetch in mobile environments. , 0, , . | | 13 |
| 136 | A flexible scatternet-wide scheduling algorithm for Bluetooth networks. , 0, , . | | 13 |
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| 138 | A bidding protocol for deploying mobile sensors. , 0, , . | | 117 |
| 139 | A generalized target-driven cache replacement policy for mobile environments. , 0, , . | | 18 |
| 140 | Data dissemination with ring-based index for wireless sensor networks. , 0, , . | | 44 |
| 141 | An energy efficient framework for mobile target tracking in sensor networks. , 0, , . | | 6 |
| 142 | On improving service differentiation under bursty data traffic in wireless networks. , 0, , . | | 10 |
| 143 | Supporting cooperative caching in ad hoc networks. , 0, , . | | 48 |
| 144 | Proxy-based sensor deployment for mobile sensor networks. , 0, , . | | 37 |

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| 145 | Movement-assisted sensor deployment. , 0, , . | | 249 |
| 146 | Performance comparison of cache invalidation strategies for Internet-based mobile ad hoc networks. , 0, , . | | 28 |
| 147 | Optimizing tree reconfiguration for mobile target tracking in sensor networks. , 0, , . | | 78 |
| 148 | Dynamic proxy tree-based data dissemination schemes for wireless sensor networks. , 0, , . | | 20 |
| 149 | Cache-miss-initiated prefetch in mobile environments. , 0, , . | | 6 |
| 150 | Processing range-monitoring queries on heterogeneous mobile objects. , 0, , . | | 18 |
| 151 | A power-aware and QoS-aware service model on wireless networks. , 0, , . | | 17 |
| 152 | Mobile multi-layered IPsec. , 0, , . | | 3 |
| 153 | DUP: Dynamic-Tree Based Update Propagation in Peer-to-Peer Networks. , 0, , . | | 16 |
| 154 | Consistency of Cooperative Caching in Mobile Peer-to-Peer Systems over MANET. , 0, , . | | 9 |
| 155 | î³DCF: A relay-enabled medium access control protocol for wireless ad hoc networks. , 0, , . | | 42 |