

Chenxi Qiu | Curriculum Vitae

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EDUCATION

Clemson University

Ph.D in Computer Engineering

Clemson, SC

Dec 2015

Xidian University

B.E. in Telecommunication Engineering

Xian, P. R. China

May 2009

WORKING EXPERIENCE

Assistant Professor

Department of Computer Science, Rowan University, Glassboro, U.S

Sept 2018 – Present

Postdoc Scholar

College of Information Science and Technology, Pennsylvania State University

Jan 2016 – Aug 2018

Research Assistant

Department of Electrical and Computer Engineering, Clemson University

Aug 2010 – Dec 2015

PUBLICATIONS

Journal Publications.....

- [12] A. Sarker, C. Qiu, and H. Shen, Connectivity Maintenance for Next-Generation Decentralized Vehicle Platoon Networks, *IEEE Transactions on Networking (ToN)*, accepted on March 5, 2020
- [11] C. Qiu and H. Shen, Dynamic Demand Prediction and Allocation in Cloud Service Brokerage, *IEEE Transactions on Cloud Computing (TCC)*, accepted on April 20, 2019
- [10] H. Shen and C. Qiu, Scheduling Inter-Datacenter Video Flows for Cost Efficiency, *IEEE Transactions on Service Computing (TSC)*, accepted on May 29, 2018
- [9] C. Qiu and H. Shen, Towards Green Wireless Networking: Fading-Resistant Time Constraint Broadcasts Using Cooperative Communication, *IEEE Transactions on Network Science and Engineering (TNSE)*, accepted on April 14, 2018
- [8] C. Qiu, H. Shen, and Liuhua Chen, Towards Green Cloud Computing: Demand Allocation and Pricing Policies for Cloud Service Brokerage, *IEEE Transactions on Big Data (TBD)*, accepted on March 29, 2018
- [7] C. Qiu, H. Shen, and K. Chen, An Energy-Efficient and Distributed Cooperation Mechanism For k-Coverage Hole Detection And Healing in WSNs, *IEEE Transactions on Mobile Computing (TMC)*, Vol. 17, no. 6, pp. 1247-1259, 2017.
- [6] K. Dey, L. Yan, X. Wang, Y. Wang, H. Shen, M. Chowdhury, L. Yu, C. Qiu, V. Soundararaj, A Review of Communication, Driver Characteristics and Controls Aspects of Cooperative Adaptive Cruise Control, *IEEE Transactions on Intelligent Transportation Systems (TITS)*, Vol. 17, no. 2, pp. 491-509, 2016
- [5] C. Qiu, H. Shen, L. Yu, S. Soltani, Low-Latency Multi-flow Cooperative Broadcast in Fading Wireless Networks, *IEEE Transactions on Computers (TC)*, Vol. 65, no. 6, pp. 1802 - 1815, 2016
- [4] C. Qiu, H. Shen, S. Soltani, K. Sapra, H. Jiang and J. Hallstrom, CEDAR: A Low-latency and Distributed Strategy for Packet Recovery in Wireless Network, *IEEE/ACM Transactions on Networking (TON)*, Vol. 23, no. 5, pp. 1514-1527, 2015

- [3] H. Shen, Z. Li, **C. Qiu**, A Distributed Three-hop Routing Protocol to Increase the Capacity of Hybrid Wireless Networks, *IEEE Transactions on Mobile Computing (TMC)*, Vol. 14, no. 10, pp. 1975-1991, 2015
- [2] **C. Qiu** and H. Shen, A Delaunay-based Coordinate-free Mechanism for Full Coverage in Wireless Sensor Networks, *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, Vol. 25, no. 4, pp. 828-839, 2014
- [1] H. Shen, Z. Li, L. Yu and **C. Qiu**, Efficient Data Collection for Large-Scale Mobile Monitoring Applications, *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, Vol. 25, no. 6, pp. 1424-1436, 2014

International Conference Publications.....

- [27] **C. Qiu**, A. C. Squicciarini, Z. Li, C. Pang, and L. Yan, Time-Efficient Geo-Obfuscation to Protect Worker Location Privacy over Road Networks in Spatial Crowdsourcing, In *Proc. of the 29th ACM International Conference on Information and Knowledge Management (CIKM)*, 2020
- [26] A. Sarker, **C. Qiu**, H. Shen, H. Uehara, and K. Zheng, Brake Data-Based Location Tracking in Usage-Based Automotive Insurance Programs, In *Proc. of the 19th ACM/IEEE Conference on Information Processing in Sensor Networks (IPSN) 2020*
- [25] **C. Qiu**, A. C. Squicciarini, and S. M. Rajtmajer, Rating Mechanisms for Sustainability of Crowdsourcing Platforms, In *Proc. of the 24th ACM International Conference on Information and Knowledge Management (CIKM) 2019* [acceptance rate 19.4%]
- [24] **C. Qiu** and A. C. Squicciarini, Location Privacy Protection in Vehicle-Based Spatial Crowdsourcing via Geo-Indistinguishability, In *Proc. of International Conference on Distributed Computing Systems (ICDCS) 2019* [acceptance rate 19.6%]
- [23] **C. Qiu**, A. C. Squicciarini, and B. Hanrahan, Incentivizing Distributive Fairness for Crowdsourcing Workers, In *Proc. of International Conference on Autonomous Agents and Multiagent Systems (AAMAS) 2019*
- [22] **C. Qiu** and H. Shen, Cloud-based Collision-Aware Energy-Minimization Vehicle Velocity Optimization, In *Proc. of International Conference on Mobile Ad-hoc and Sensor Systems (MASS) 2018*
- [21] **C. Qiu**, A. C. Squicciarini, D. Khare, B. Carminati, and J. Caverlee, CrowdEval: A Cost-Efficient Strategy to Evaluate Crowdsourced Workers' Reliability, In *Proc. of International Conference on Autonomous Agents and Multiagent Systems (AAMAS) 2018*
- [20] **C. Qiu**, A. C. Squicciarini, C. Griffin, and P. Umar, Combating Behavioral Deviance via User Behavior Control, In *Proc. of International Conference on Autonomous Agents and Multiagent Systems (AAMAS) 2018*
- [19] L. Yan, H. Shen, Z. Li, A. Sarker, J. A. Stankovic, **C. Qiu**, J. Zhao, and C. Xu, Employing Opportunistic Charging for Electric Taxicabs to Reduce Idle Time, In *Proc. of ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp) 2018*
- [18] **C. Qiu** and H. Shen, Fading-Resistant Link Scheduling in Wireless Networks, In *Proc. of the 46th International Conference on Parallel Processing (ICPP) 2017*
- [17] **C. Qiu**, A. Sarker, and H. Shen, Power Distribution Scheduling for Electric Vehicles in Wireless Power Transfer Systems, In *Proc. of the 14th IEEE International Conference on Sensing, Communication and Networking (SECON) 2017*
- [16] **C. Qiu**, A. C. Squicciarini, S. M. Rajtmajer, and J. Caverlee, Dynamic Contract Design for Heterogenous Workers in Crowdsourcing for Quality Control, In *Proc. of the 37th IEEE International Conference on Distributed Computing Systems (ICDCS) 2017*
- [15] A. Sarker, **C. Qiu**, and H. Shen, Quick and Autonomous Platoon Maintenance in Vehicle Dynamics For Distributed Vehicle Platoon Networks, Short paper, In *Proc. of ACM/IEEE International Conference*

on Internet-of-Things Design and Implementation (IoTDI) 2017

- [14] L. Yan, H. Shen, J. Zhao, C. Xu, F. Luo, and C. Qiu, CatCharger: Deploying Wireless Charging Lanes in a Metropolitan Road Network through Categorization and Clustering of Vehicle Traffic, In *Proc. of IEEE International Conference on Computer Communications (INFOCOM)* 2017 [acceptance rate: 20.93%]
- [13] C. Qiu, H. Shen, A. Sarker, V. Soundararaj, M. Devine, and E. Ford, Towards Green Transportation: Fast Vehicle Velocity Optimization for Fuel Efficiency, In *Proc. of The 8th IEEE International Conference on Cloud Computing Technology and Science (CloudCom)* 2016 [best paper award]
- [12] C. Qiu, Anna C. Squicciarini, B. Carminati, J. Caverlee and D. R. Khare, CrowdSelect: Increasing Accuracy of Crowdsourcing Tasks through Behavior Prediction and User Selection, In *Proc. of the 21st ACM International Conference on Information and Knowledge Management (CIKM)* 2016, [acceptance rate: 17.6%]
- [11] A. Sarker, C. Qiu, H. Shen, A Decentralized Network with Fast and Lightweight Autonomous Channel Selection in Vehicle Platoons for Collision Avoidance, In *Proc. of the The 13th IEEE International Conference on Mobile Ad hoc and Sensor Systems (MASS)* 2016
- [10] A. Sarker, C. Qiu, H. Shen, A. Gily, J. Taibery, M. Chowdhuryz, J. Martinx, M. Devine and A. Rindos, An Efficient Wireless Power Transfer System To Balance the State of Charge of Electric Vehicles, In *Proc. of the 45th International Conference on Parallel Processing (ICPP)* 2016, [acceptance rate: 21.1%]
- [9] C. Qiu, and H. Shen, Link Scheduling in Cooperative Communication with SINR-Based Interference, In *Proc. of the 25th International Conference on Computer Communications and Networks (ICCCN)* 2016
- [8] C. Qiu, Haiying Shen, and Liuhua Chen, Probabilistic Demand Allocation for Cloud Service Brokerage, In *Proc. of IEEE International Conference on Computer Communications (INFOCOM)* 2016, [acceptance rate: 18.25%]
- [7] C. Qiu, Haiying Shen, and Liuhua Chen, Towards Green Cloud Computing: Demand Allocation and Pricing Policies for Cloud Service Brokerage, In *Proc. of 2015 IEEE International Conference on Big Data* 2015, [acceptance rate: 17%]
- [6] C. Qiu, H. Shen and K. Chen, An Energy-Efficient and Distributed Cooperation Mechanism For k-Coverage Hole Detection And Healing in WSNs, In *Proc. of the IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)* 2015
- [5] C. Qiu, H. Shen and L. Yu, Energy-Efficient and Delay-Constrained Broadcast in Time-Varying Energy-Demand Graphs, In *Proc. of the 44th International Conference on Parallel Processing (ICPP)* 2015, September 1st - 4th, Beijing, China
- [4] C. Qiu, H. Shen and L. Yu, Energy-efficient Cooperative Broadcast in Fading Wireless Networks, In *Proc. of IEEE International Conference on Computer Communications (INFOCOM)* 2014, April 27th - May 2nd, Toronto, Canada [acceptance rate: 19.4%]
- [3] C. Qiu, H. Shen, S. Soltani, K. Sapra, H. Jiang and J. Hallstrom, CEDAR: An Optimal and Distributed Strategy for Packet Recovery In Wireless Network, In *Proc. of IEEE International Conference on Computer Communications (INFOCOM)* 2013, April 14-19, Turin, Italy, USA [acceptance rate: 17%]
- [2] C. Qiu, L. Yu, H. Shen and S. Soltani, Low-Latency Multi-flow Broadcasts in Fading Wireless Networks, In *Proc. of IEEE INFOCOM-Mini-Conference*, 2013, April 14-19, Turin, Italy, USA
- [1] C. Qiu and H. Shen, A Delaunay-based Location-free Mechanism for Full Coverage in Wireless Sensor Networks, In *Proc. of IEEE International Conference on Parallel Processing (ICPP)* 2012, Pittsburgh, PA, September 10-13

Posters.....

- [2] C. Qiu and H. Shen, Link Scheduling in Wireless Cooperative Communication Networks, In *Proc. of IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS) 2015*
- [1] C. Qiu, H. Shen and K. Chen, An Energy-Efficient and Distributed Cooperation Mechanism For k-Coverage Hole Detection And Healing in WSNs, In *Proc. of the IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS) 2015*,

AWARDS AND ACHIEVEMENTS

- o Service Award in IEEE International Conference on Mobile Ad hoc and Sensor Systems (MASS), 2019
- o Best Paper Award in IEEE CloudCom, 2016
- o NSF Student Travel Grant, IEEE International Conference on Mobile Ad hoc and Sensor Systems (MASS), 2015
- o NSF Student Travel Grant, IEEE International Conference on Big Data, 2015
- o Harris Outstanding Researcher Award, Department of ECE, Clemson University, 2014
- o Top-Grade Scholarship in Graduate School, Xidian University, 2009
- o Honorable Mention of Interdisciplinary Contest in Modeling (ICM), 2008

PROFESSIONAL ACTIVITIES

Poster Co-chair for.....

2019: IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS) 2019

Session Chair for.....

2019: IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS) 2019

2019: IEEE International Conference on Distributed Computing Systems (ICDCS) 2019

Technical Program Committee Member for.....

2020: IEEE Wireless Communications and Networking Conference (WCNC)

2020: IEEE International Conference on Fog and Edge Computing (ICFEC)

2019, 2020: IEEE/ACM International Symposium on Cluster, Cloud, and Grid Computing (CCGrid)

Conference Reviewer for.....

2020: The IEEE Wireless Communications and Networking Conference (WCNC)

2020: The IEEE International Conference on Fog and Edge Computing (ICFEC)

2019, 2020: IEEE/ACM International Symposium on Cluster, Cloud, and Grid Computing (CCGrid)

2018: IEEE Conference on Computer Communications (INFOCOM)

2018: International Conference on Software (Softcome)

2017: IEEE International Conference on Computer Communications and Networks (ICCCN)

2016: IARIA INTERNET

Journal Reviewer for.....

2018: IEEE Transactions on Services Computing (TSC)

2015, 2018: IEEE/ACM Transactions on Networking (ToN)

2014, 2018: IEEE Journal on Selected Areas in Communications (JSAC)

2017: IEEE Transactions on Mobile Computing (TMC)

2016: IEEE Communications Letters (CL)

2018: IEEE Transactions on Information Forensics & Security (TIFS)

2015, 2018: IEEE Transactions on Vehicular Technology (TVT)
2017: IEEE Transactions on Wireless Communications (TWC)
2017: International Journal of Communication Systems (IJCS)
2015: International Journal of Distributed Sensor Networks (IJDSN)
2017, 2018: International Journal of Cooperative Information Systems (IJCIS)
2017: Computer Networks Journal (CONNET), Computer Networks