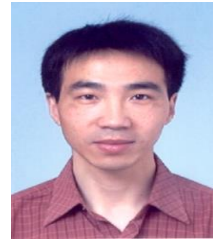# Professor Zhao Qinglin

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Academic Qualification:

Ph.D. in Institute of Computing Technology, Chinese Academy of Sciences, 2005

Master in Huazhong University of Science & Technology, 2001

Bachelor in Hubei University, 1998

Teaching Area

Data structure

Socket programming

Web technologies

Selected topics in communications

Electronic commerce

Research Area

Blockchain and Decentralization Computing

Machine Learning and Its Applications

Internet of Things (IoT)

Wireless Communications and Networking

Cloud/Fog Computing

Software-Defined Wireless Networking (SDWN)

Note: I am currently recruiting Mphil and PhD students. Please feel free to contact me if you are interested in my research directions.

Working Experience

Jul. 2017 ~ present, Professor, Faculty of Information Technology, MUST

Jul. 2012 ~ Jun. 2017, Associate Professor, Faculty of Information Technology, MUST

Sep.2009 ~ Jun. 2012, Assistant Professor, Faculty of Information Technology, MUST

Oct. 2006 ~ Aug. 2009, Research Associate, Department of Electronic & Computer Engineering, The Hong Kong University of Science

May 2005 ~ Sep. 2006, Research Associate, Department of Information Engineering, The Chinese University of Hong Kong

Academic Publications (Selected Journal Papers)

1. Qinglin Zhao, Li Feng, Lian Zhao, Zhenni Li and Yong Liang, SatOpt Partition: Dividing Throughput-Stability Region for IEEE 802.11 DCF Networks, IEEE Transactions on Vehicular Technology, accepted.

2. Li Feng, Qinglin Zhao, Zhiguo Shi, Zhenni Li and Yong Liang, Modeling the Impact of the MoreData Parameter for Wireless Power-Saving Protocols, IEEE Transactions on Green Communications and Networking, accepted.

3. Zhimin Wang, Qinglin Zhao, Li Feng, and Fangxin Xu, How Much Benefit Can Dynamic Frequency Scaling Bring to WiFi?, IEEE Transactions on Mobile Computing, accepted.

4. Jun Huang, Chao Huang, Congcong Xing, Zheng Chang, Yanxiao Zhao, and Qinglin Zhao, An Energy-Efficient Communication Scheme for Collaborative Mobile Clouds in Content Sharing: Design and Optimization, IEEE Transactions on Industrial Informatics, 15(10): 5700-5707, 2019.

5. Qiang Yang, Siyang Sun, Shuiguang Deng, Qinglin Zhao, and Mengchu Zhou, Optimal Sizing of PEV Fast Charging Stations with Markovian Demand Characterization, IEEE Transactions on Smart Grid, 10(4):4457-4466, 2019.

6. Qinglin Zhao, Soung C. Liew, Shengli Zhang, and Yao Yu, Distance-based Location Management Utilizing Initial Position for Mobile Communication Networks, IEEE Transactions on Mobile Computing, 5(1):107-120, 2016.

7. Fangxin Xu, Qinglin Zhao, and Yu Zeng, How Well Does CSMA/CN Work in WLANs?, IEEE Transactions on Vehicular Technology, 65(9):7662-7669, 2016.

8. Zhijie Ma, Qinglin Zhao, and Tom H. Luan, Providing Utility-Optimal Throughput Guarantees in Wireless LANs, IEEE Transactions on Vehicular Technology, 65(9):7559-7567, 2016.

9. Qinglin Zhao, Danny H. K. Tsang, and Taka Sakurai, A Scalable and Accurate Nonsaturated IEEE 802.11e EDCA Model for an Arbitrary Buffer Size, IEEE Transactions on Mobile Computing, 12(12):2455-2469, 2013.

10. Qinglin Zhao, Danny H. K. Tsang, and Taka Sakurai, A Simple Critical-Load-Based CAC Scheme for IEEE 802.11 DCF Networks, ACM/IEEE Transactions on Networking, 19(5): 1485 - 1498, 2011.

11. Qinglin Zhao, Danny H. K. Tsang, and Taka Sakurai, Modeling Nonsaturated IEEE 802.11 DCF Networks under Arbitrary Buffer Size, IEEE Transactions on Mobile Computing, 10(9): 1248-1263, 2011.

12. Qinglin Zhao, Danny H. K. Tsang, and Taka Sakurai, A Novel CAC Scheme for Homogeneous 802.11 Networks, IEEE Transactions on Wireless Communications, 9(3): 1168-1174, 2010.

13. Qinglin Zhao, Danny H. K. Tsang, and Taka Sakurai, A Simple and Approximate Model for Nonsaturated IEEE 802.11 DCF, IEEE Transactions on Mobile Computing, 8(11): 1539-1553, 2009.

14. Qinglin Zhao, Soung C. Liew, and Yao Yu, Location Update Cost of Distance-Based Scheme for PCS Networks with CTRW Model, IEEE Communications Letters, 13 (6): 408-410, 2009.

15. Qinglin Zhao, Danny H. K. Tsang, An Equal-spacing-based Design for QoS Guarantee in IEEE 802.11e HCCA Wireless Networks, IEEE Transactions on Mobile Computing, 7(11):134-152, 2008.

16. Qinglin Zhao and Danny H. K. Tsang, and Taka Sakurai, A Simple Model for Nonsaturated IEEE 802.11 DCF Networks, IEEE Communications Letters, 12(8): 563–565, 2008.

Patents

U.S. Patent 10,084,661 B2, Method for Evaluating Performance of a Data Communication Network.
U.S. Patent 9,942,150 B2, Method for Optimizing Throughput of a Network.
U.S. Patent 9,961,702 B2, Method and System for Contention Queuing Using Queue-Based MAC Protocol.
U.S. Patent 10,004,090 B2, Queue-Based MAC Protocol with Subcarrier Allocation Optimization.
U.S. Patent 10,004,037 B2, Coding-Aware Scheme to Minimize Energy Consumption and Time Cost.
U.S. Patent 9,307,560 B2, Method for Scheduling a Random-Access Communication System with Absolute and Proportional
U.S. Patent 9,907,029 B2, Power Allocation Optimization Under Constraints of Throughput Requirements and Interference Limit for
U.S. Patent 9,232,351 B1, Location Management Utilizing Initial Position for Mobile Networks.

Professional Certification and Awards

BOC Excellent Resarch Award in 2011 and 2015.

Professional Society Membership

Senior Member, IEEE
Member, Blockchain Expert Committee of CCF