

Suiming Guo

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清華大學



香港中文大學

The Chinese University of Hong Kong

Education

Aug, 2013- Present

PhD Candidate, Department of Information Engineering
The Chinese University of Hong Kong, Hong Kong
Supervisor: Prof. Dah Ming Chiu

Aug, 2011- July, 2013

M. Sc, Department of Electronic Engineering
Tsinghua University, Beijing
Supervisor: Prof. Xing Li

Sep, 2007 – July, 2011

B. Eng, Department of Electronic Engineering,
Tsinghua University, Beijing
GPA: 91.0 Ranking: 15/260

Aug, 2009 – Dec, 2009

Visiting Student, Department of Electrical and Computer Engineering
University of Toronto, Canada
GPA: 4.0 (All A+)

Publications

(1) Dynamic Pricing in Ride-on-demand Service:

1. Suiming Guo, Chao Chen, Jingyuan Wang, Yaxiao Liu, Ke Xu, Daqing Zhang, Dah Ming Chiu, *A Simple but Quantifiable Approach to Dynamic Price Prediction in Ride-on-demand Services Leveraging Multi-source Urban Data*, in Ubicomp 2018 and ACM IMWUT (Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies). (accepted). **[CCF-A Level Top Conference & Journal]**
2. Suiming Guo, Chao Chen, Yaxiao Liu, Ke Xu, Bin Guo, Dah Ming Chiu, *How to Pay Less: A Location-specific Approach to Predict Dynamic Prices in Ride-on-demand Services*, submitted to IET Intelligent Transport Systems. **[Journal]**
3. Suiming Guo, Chao Chen, Yaxiao Liu, Ke Xu, Dah Ming Chiu, *It Can be Cheaper: Using Price Prediction to Obtain Better Prices from Dynamic Pricing in Ride-on-demand Services*, in 14th Annual International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous 2017), Melbourne, Australia.
4. Suiming Guo, Chao Chen, Yaxiao Liu, Ke Xu, Dah Ming Chiu, *Modelling Passengers' Reaction to Dynamic Prices in Ride-on-demand Services: A Search for the Best Fare*, in Ubicomp 2018 and ACM IMWUT (Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies) (accepted). **[CCF-A Level Top Conference & Journal]**
5. Suiming Guo, Yaxiao Liu, Ke Xu, Dah Ming Chiu, *Understanding Passenger Reaction to Dynamic Prices in Ride-on-demand Service*, in 2017 IEEE International Conference on Pervasive Computing and Communications Workshops (PerCom Workshops), Hawaii, USA, 2017.
6. Suiming Guo, Yaxiao Liu, Ke Xu, Dah Ming Chiu, *Understanding Ride-on-demand Service: Demand and Dynamic Pricing*, in 2017 IEEE International Conference on Pervasive Computing and Communications Workshops (PerCom Workshops), Hawaii, USA, 2017.

(2) Content Delivery to Smart Homes:

7. Suiming Guo, Liang Chen, Dah Ming Chiu, *An Incentive-based Mixed QoE Framework for Content Delivery to Smart Homes*, in 26th International Conference on Computer Communications and Networks

(ICCCN 2017), Vancouver, Canada, 2017.

8. Suiming Guo, Liang Chen, Dah Ming Chiu, *DST: Leveraging Delay-insensitive Workload in Cloud Storage for Smart Home Network*, in 24th International Conference on Computer Communications and Networks (ICCCN 2015), Las Vegas, USA, 2015.
9. Liang Chen, Suiming Guo, Guoqiang Zhang, *Distributing Very-large Content from Cloud to Smart Home Hubs: Measurement and Implications*, in The 2015 IEEE International Conference on Communications (ICC 2015).
10. Suiming Guo, Liang Chen, Guoqiang Zhang, Dah Ming Chiu, *Batching for Smart Home: Leveraging Delay-insensitive Workload in Cloud Storage*, in 7th International Conference on COMMunication Systems & NETworkS (COMSNETS 2015), Bangalore, India, 2015.

(3) **Scalable, Standard-definition, Low-latency Video Conferencing Systems:**

11. Suiming Guo, Congxiao Bao, Xing Li, *Scalable Distributed Standard Definition Video Conferencing System: Architecture and Forwarding Model*, in 2012 National Conference on Information Technology and Computer Science (EI Indexed).
12. 李星, 郭穗鸣, 包丛笑, *可扩展分布式标清视频会议系统: 结构和转发模型*, 清华大学学报: 自然科学版 52(9), pp 1275—1280, 2012.

Awards

1. 2013-2016: Hong Kong PhD Fellowship (HKPFS) (Only 185 awardees out of 4785 applicants around all Hong Kong universities.)
2. 2011-2012: First Class Scholarship for All-round Performance, Tsinghua University (Top 1%.)
3. 2008-2009: First Class Scholarship for Academic Performance, Tsinghua University (Top 5%)
4. 2009-2010: First Class Scholarship for Academic Performance, Tsinghua University (Top 5%)
5. 2010' *Honorable Mention Award*, MCM (Mathematical Contest in Modeling)
6. 2006' Silver Medal, China Physics Olympic (CPhO)

Interns

1. Software Development Engineer Intern in *Microsoft Asia & Pacific Research Development Group (Beijing)*, **January 2012 – June 2012**.
 - a) Worked as a member of the *Exchange Manageability Team* of *Microsoft Office Division*.
 - b) Engaged in improving code coverage of the product and helped in the perfection of the unit-test framework. Wrote test cases to test and guarantee the quality of the product.
 - c) Engaged in bug testing and fixing of the product.
 - d) Extended the product test infrastructure to support “debug mode”, facilitating the debug process of both developers and tester.
2. Software Development Engineer Intern in *China Education & Research Network (CERNET, Beijing)*, **April 2012 – August 2012**.
 - a) Responsible for the research and development of DVTS+ (*Digital Video Transport System Plus*, a multi-point standard-definition video conferencing system).
 - b) Designed the architecture and implemented a new version of DVTS+, *the Distributed DVTS+*, supporting more than one video stream transmitters and increasing system scalability and capacity.
 - c) Improved the GUI of the existing DVTS+ and added new functionality to the system.
3. Software Development Engineer Intern in *Shenzhen UCar Inc. (Beijing)*, **February 2016 – March 2016**.
 - a) Responsible for the data collection and data analysis of Shenzhen UCar's ride-on-demand service, including the data of orders, GPS trajectories, payment and event-logs.
 - b) Responsible for the study on ride-on-demand service, including data analysis, demand and dynamic

pricing, passengers' behavior, etc.

- c) Engaged in the study about applying different schemes to influence drivers' behavior to improve service efficiency.