Leye WANG

Ph.D.
Network & Service Department
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Education

2012.09-2016.05	**Ph.D.**, Computer Science, Institut Mines-Télécom / Université Pierre et Marie CURIE, France Thesis: *Facilitating Mobile Crowdsensing from both Organizers' and Participants' Perspectives* Supervised by Prof. Daqing ZHANG and Prof. Abdallah MHAMED
2009.09-2012.07	**M.S.**, Computer Science, Peking University, China Supervised by Prof. Bing XIE
2005.09-2009.07	**B.S.**, Computer Science, Peking University, China

Visiting and Intern Experience

2015.09-2015.10	**Visiting Scholar**, Peking University, China With Prof. Bing XIE and Prof. Yasha WANG
2012.01-2012.05	**Intern Software Engineer**, Qunar.com, Beijing, China
2010.05-2010.09	**Intern Software Engineer**, Netease, Beijing, China

Research Interests

Mobile Crowd Sensing
Online Social Network
Intelligent Transportation System

Journals

1. **Leye Wang**, Daqing Zhang, Yasha Wang, Chao Chen, Xiao Han and Abdallah Mhamed. "Sparse Mobile Crowdsensing: Challenges and Opportunities". *IEEE Communications Magazine*, 2016, accepted.
2. **Leye Wang**, Daqing Zhang, Haoyi Xiong, J. Paul Gibson, Chao Chen and Bing Xie, "ecoSense: Minimize Participants' Total 3G Data Cost in Mobile Crowdsensing Using Opportunistic Relays". *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, 2016, accepted.
3. **Leye Wang**, Daqing Zhang, Zhixian Yan, Haoyi Xiong and Bing Xie. "effSense: A Novel Mobile Crowdsensing Framework for Energy-Efficient and Cost-Effective Data Uploading". *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 45, no. 12, 2015, pp. 1549-1563.
4. Xiao Han, **Leye Wang**, Reza Farahbakhsh, Angel Cuevas, Ruben Cuevas, and Noel Crespi, "CSD: A Multi-User Similarity Metric for Community Recommendation in Online Social Networks." *Expert Systems with Applications*, 2016, accepted.
5. Haoyi Xiong, Daqing Zhang, Guanling Chen, **Leye Wang**, Vincent Gauthier and Laura E. Barnes. "iCrowd: Near-Optimal Task Allocation for Piggyback Crowdsensing". *IEEE Transactions on Mobile Computing*, 2016, accepted.

6. Longbiao Chen, Daqing Zhang, Xiaojuan Ma, **Leye Wang**, Shijian Li, Zhaohui Wu, Gang Pan, "Container Port Performance Measurement and Comparison Leveraging Ship GPS Traces and Maritime Open Data". *IEEE Transactions on Intelligent Transportation Systems,* 2016, accepted.
7. Haoyi Xiong, Daqing Zhang, **Leye Wang** and Hakima Chaouchi. "EMC3: Energy-efficient Data Transfer in Mobile Crowdsensing under Full Coverage Constraint". *IEEE Transactions on Mobile Computing*, vol. 14, no. 7, 2015, pp. 1355-1368.
8. Xiao Han, **Leye Wang**, Noel Crespi, Soochang Park and Angel Cuevas. "Alike People, Alike Interests? Inferring Interest Similarity in Online Social Networks". *Decision Support Systems*, vol. 69, 2015, pp. 92-106.
9. Haoyi Xiong, Daqing Zhang, **Leye Wang**, J.Paul Gibson and Jie Zhu. "EEMC: Enabling Energy-Efficient Mobile Crowdsensing with Anonymous Participants". *ACM Transactions on Intelligent Systems and Technology*, vol. 6, no.3, 2015, pp. 39:1-39:27.
10. Daqing Zhang, **Leye Wang**, Haoyi Xiong and Bin Guo. "4W1H in Mobile Crowd Sensing". *IEEE Communications Magazine*, vol. 52, no. 8, 2014, pp. 42-48.

Conference Proceedings

11. **Leye Wang**, Daqing Zhang, Animesh Pathak, Chao Chen, Haoyi Xiong, Dingqi Yang and Yasha Wang. "CCS-TA: Quality-Guaranteed Online Task Allocation in Compressive Crowdsensing". *Proc. UbiComp*, Sept. 2015, Osaka, Japan, pp. 683-694.
12. **Leye Wang**, Daqing Zhang and Haoyi Xiong, "effSense: Energy-Efficient and Cost-Effective Data Uploading in Mobile Crowdsensing". *Proc. UbiComp Adjunct*, Sept. 2013, Zurich, Switzerland, pp. 1075-1086.
13. Xiao Han, **Leye Wang**, "Are You Really Hidden? Estimating Current City Exposure Risk in Online Social Networks". *Proc. PACIS*, Jun. 2016, Chiayi, Taiwan.
14. Xiao Han, **Leye Wang**, Son N. Han, Chao Chen, Noel Crespi and Reza Farahbakhsh. "Link Prediction for New Users in Social Networks". *Proc. ICC*, Jun. 2015, London, UK, pp. 1250-1255.
15. Haoyi Xiong, Daqing Zhang, Guanling Chen, **Leye Wang** and Vincent Gauthier. "CrowdTasker: Maximizing Coverage Quality in Piggyback Crowdsensing under Budget Constraint". *Proc. PerCom*, Mar. 2015, St. Louis, USA, pp. 55-62.
16. Chao Chen, Daqing Zhang, **Leye Wang**, Xiaojuan Ma, Xiao Han and Edwin Sha. "TaxiExp: A Novel Framework for City-wide Package Express Shipping via Taxi CrowdSourcing". *Proc. UIC*, Dec. 2014, Bali, Indonesia.
17. Daqing Zhang, Haoyi Xiong, **Leye Wang** and Guanling Chen. "CrowdRecruiter: Selecting Participants for Piggyback Crowdsensing under Probabilistic Coverage Constraint". *Proc. UbiComp*, Sept. 2014, Seattle, USA, pp. 703-714.
18. Longbiao Chen, Daqing Zhang, Gang Pan, **Leye Wang**, Xiaojuan Ma, Chao Chen and Shijian Li. "Container Throughput Estimation Leveraging Ship GPS Traces and Open Data". *Proc. UbiComp*, Sept. 2014, Seattle, USA, pp. 847-851.
19. Xiao Han, **Leye Wang**, Soochang Park, Angel Cuevas and Noel Crespi. "Alike People, Alike Interests? A Large-Scale Study on Interest Similarity in Social Networks". *Proc. ASONAM*, Aug. 2014, Beijing, China, pp. 491-496.
20. Lijie Wang, Lu Fang, **Leye Wang**, Ge Li, Bing Xie, Fuqing Yang, "APIExample: An Effective Web Search Based Usage Example Recommendation System for Java APIs". *Proc. ASE*, 2011, pp.592-595.
21. Lijie Wang, **Leye Wang**, Ge Li, Bing Xie, "Assisting Developers to Read Code Help-Documents Efficiently through Discovering Document-section Relationships". *Proc. SEKE*, 2010. pp.367~373.

Work in Progress

- **Leye Wang**, Daqing Zhang, Dingqi Yang, Brian Y. Lim, Haoyi Xiong and Abdallah Mhamed. "Differential Location Privacy for Sparse Mobile Crowd-Sensing with Data Quality Loss Reduction". Submitted to *IEEE/ACM Transactions on Networking*, under review.

Patents

- Gang Pan, Longbiao Chen, Daqing Zhang, **Leye Wang**, Shijian Li, Zunkuo Sheng, Biwei Ding. "A System and Method for Container Port Throughput Estimation". China Patent CN104240062A, 2014.
- Lijie Wang, Lu Fang, **Leye Wang**, Yanzhen Zou, Junfeng Zhao. "A System and Method for Extracting Usage Examples of Application Programming Interfaces". China Patent CN102567016B, 2011.

Selected Honors & Awards

2010	Outstanding Student of Peking University
2009	Beijing Outstanding Graduate
2009	Second Price of the "Chinese Academy of Sciences Cup" National Software Competition (Project: *i.So.Code* – a program code search engine, Rank: 5/300+)
2008	Academic Innovation Award of Peking University
2008	Meritorious Winner of the Mathematical Contest in Modeling (Rank: top 14%)

Talks

- *CCS-TA: Quality-Guaranteed Online Task Allocation in Compressive Crowdsensing*
  ACM UbiComp 2015 (Host: Santosh Kumar), Osaka, Japan, 2015.09
- *effSense: Energy-Efficient and Cost-Effective Data Uploading in Mobile Crowdsensing*
  ACM UbiComp Workshop 2013 (Host: Zhixian Yan), Zurich, Switzerland, 2013.09

Academic Activities

Conference Chair:

- **General Co-chair**. *The First International Workshop on Crowd Intelligence for Smart Cities: Technology and Applications (CISC'16)*, in conjunction with UIC'16. July, 2016, Toulouse, France.
- **Workshops and Industrial Track Chair**. *The 7th International Conference on Mobile Wireless Middleware, Operating Systems, and Applications (MOBILWARE'16)*. Dec. 2016, Naples, Italy.

Conference Reviewer:

- *UIC'16, ICOST'16, PACIS'16, MobiCase'15*

Journal Reviewer:

- *IEEE Transactions on Computers*
- *ACM Transactions on Intelligent Systems and Technology*
- *Elsevier Pervasive and Mobile Computing*
- *IEEE Communications Magazine*
- *IEEE IT Professional*

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