

Shuai Wang

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Education

- 2013 - present *Ph.D. in Computer Science,
Harbin Institute of Technology, Harbin, CHINA.*
- 2011 - 2013 *Master of Engineering in Computer Science,
Harbin Institute of Technology, Harbin, CHINA.*
- 2007 - 2011 *Bachelor of Engineering in Computer Science,
Harbin Institute of Technology, Harbin, CHINA.*

Awards & Scholarships

- 2012 *National Graduate Scholarship, Ministry of Education of China.*
- 2012 *Scholarship of Academics, Harbin Institute of Technology.*
- 2011 *Scholarship of Academics, Harbin Institute of Technology.*
- 2010 *Chinese Mathematics Competitions, Chinese Mathematical Society.*

Research Experiences

- *Diagnose the health of access points in campus wireless network* 2014 - present
- Collect statements of access points (e.g. signal strength, data transmitting rate, number of online users) in campus.
 - Map statements of access points data to the map of Harbin Institute of Technology
 - Cluster the statements of different users' data transmitting in a WIFI access point to evaluate the health of the WIFI access point.
- *Budget feasible mechanism for multiple tasks mobile crowdsensing* 2014 - present
- Design a multiple tasks cooperating crowdsensing model.
 - Design an auction and bargain mechanism to incentive crowdsensing workers
 - Prove correctness of the mechanism (e.g. truthful, individual rational, budget feasible)
- *Power control for multiple fading channels (master thesis)* 2012 - 2013
- Propose a multiple channels interference energy optimization model.
 - Design a centralized and distributed algorithm to solve the optimization problem using geometric programming theory.
 - Design a constrained markov decision process to learn how to control the power of each transmitting channel
 - Publish a related paper in the proceedings of PICOM 2014
- *Multiple access points transmitting optimization on VANET (Bachelor thesis)* 2011
- Design a centralized algorithm for multiple access points transmitting with transmitting data constraints
 - Simulate transmitting Scenario using python

Publications

- **Shuai Wang**, Zhijun Li, Shouxu Jiang, "Distributed Energy-efficient Power Control Algorithm of Delay Constrained Traffic over Multi Fading Channels", in the proceedings of the 12th International Conference on Pervasive Intelligence and Computing (PICom),

August 24-27, 2014.