

Xiaomei Zhang

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Education

Aug.2010 - present	Pennsylvania State University , University Park, PA Ph.D. Candidate , Computer Science and Engineering GPA: 3.99
Sep.2006 – Jul.2010	University of Science and Technology of China , Hefei, China B.E. , Electrical Engineering GPA: 3.95

Research Interests

Wireless Networks, Mobile Computing, Social networks

Research Experiences

Aug.2010 –present	Research Assistant , MCN Lab, The Pennsylvania State University Exploited various aspects of social behavior patterns of mobile users to improve the performance of emerging opportunistic mobile networking systems with intermittent network connectivity (i.e., delay tolerant networks). <ul style="list-style-type: none">• Transient Communities: Consider the temporal information associated with communities and aim to design a strategy to detect transient communities and apply transient communities to data forwarding in delay tolerant networks• Networks with Diverse Connectivity Characteristics: Consider the diverse connectivity characteristics in mobile social networks and identify the existence of transient connected components, and then propose more efficient data forwarding strategy considering these special structures in mobile social networks.
Jul.2009 –Jul.2010	Research Assistant , Information Network Lab. USTC Analyze the influence of delay caused by network coding as well as the influence of node buffer size on the performance of network coding, devise a new scheduling strategy to prevent the potential instability caused by time delay, and test its performance in different loading condition of the wireless network.

Honors and Awards

College of Engineering Fellowship, The Pennsylvania State University, 2010
Samsung Scholarship, China Samsung, 2009
National Scholarship, Ministry of Education of the P.R. China, 2007&2008
Fellowship for exchange students to NTHU, 2008

Outstanding Freshman Scholarship, 2006

Publications

- **Xiaomei Zhang** and Guohong Cao, "Efficient Data Forwarding in Mobile Social Networks with Diverse Connectivity Characteristics," IEEE International Conference on Distributed Computing Systems (ICDCS), 2014.
- **Xiaomei Zhang** and Guohong Cao, "Transient Community Detection and Its Application to Data Forwarding in Delay Tolerant Networks," IEEE International Conference on Network Protocols (ICNP), 2013.

Technical Skills

Programming Language: C/C++ , SQL, Java, VHDL, R, Matlab

Teaching Experiences

Spring 2011 **Teaching Assistant** for CMPSC 465: Data Structures and Algorithms

Fall 2011 **Teaching Assistant** for CMPEN 360: Communication Networks

Department of Computer Science and Engineering, The Pennsylvania State University