

Xiaohua Xu (IEEE Student Member)

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RESEARCH Wireless Networking Lab, Dept. of Computer Science, Illinois Tech, 8/2007-present
EXPERIENCES Research on algorithm design and analysis in wireless network, such as throughput optimization in mesh network or wireless ad-hoc network, energy efficiency in wireless network, security theory (saddle attack and key distribution) in wireless network.

PUBLICATION Xiangyang Li, Jizhong Zhao, Yanwei Wu, Shaojie Tang, **XiaoHua Xu** and Xufei Mao
Broadcast Capacity for Wireless Ad Hoc Networks, IEEE MASS 2008.
P.-J. Wan, **XiaoHua Xu**, L. Wang, X. Jia, and E.K. Park
Minimum-Latency Beaconing Schedule in Multihop Wireless Networks,
IEEE INFOCOM 2009.
XiaoHua Xu, Shiguang Wang, Xufei Mao, Shaojie Tang, Xiangyang Li
An Improved Approximation Algorithm for Data Aggregation in Multi-hop WSNs,
ACM MobiHoc FOWANC workshop 2009.
XiaoHua Xu and Shaojie Tang
A Constant Approximation Algorithm for Link Scheduling in Arbitrary Networks
ACM MobiHoc FOWANC workshop 2009.
XiaoHua Xu, ShiGuang Wang, XuFei Mao, ShaoJie Tang, Xiang-Yang Li
Efficient Data Aggregation in Multi-hop WSNs
IEEE GLOBECOM 2009.
Xiang-Yang Li, **XiaoHua Xu**, ShiGuang Wang, S.-J. Tang, G.-J. Dai, J.-Z. Zhao, Y. Qi
Efficient Data Aggregation in Multi-hop WSNs under Physical Interference Model
IEEE MASS 2009 (62 out of 245).

TALKS An Improved Approximation Algorithm for Data Aggregation in Wireless Sensor Networks
The 57th Midwest Theory Day at Northwestern University, Chicago, IL

TEACHING CS536 Science of Programming, TA Illinois Institute of Technology, 8/2008-12/2008
EXPERIENCES CS547 Wireless Networking, TA Illinois Institute of Technology, 8/2008-12/2008
CS547 Wireless Networking, TA Illinois Institute of Technology, 1/2009-5/2009

EDUCATION Zhejiang University, Hangzhou, Zhejiang, China 9/2003-7/2007
B.Sc., Mixed Honors Class, Chu Kochen Honors College,
B.Sc., College of Computer Science and Technology,
GPA: 3.80/86.90(overall courses) 3.83/88.25(major courses)
Rank: top 5% among 334 students in the College of Computer Science Technology

Illinois Institute of Tech., Chicago, IL, USA 8/2007-present
Ph.D. Student, Computer Science Department
Advisor: Associate Prof. Xiang-Yang Li, GPA: 3.83

AWARDS

- Deans Fellowship at Computer Science Department of IIT(07,08)
- Tangs Scholarship at Illinois Institute of Tech(07,08)
- Second Class Academic Fellowship at Zhejiang Univ. (06)
- Third Class Academic Fellowship at Zhejiang Univ. (04, 05)
- Cyrus Tang Scholarship from Tang Foundation (04, 05, 06, 07)
- First Prize in the Advanced Mathematics Contest of Zhejiang Province(05)
- First Prize in the National Olympic Contest of Mathematics (02)
- Second Prize in the National Olympic Contest of Mathematics (01)
- Admitted to Zhejiang University waived of College Entrance Exam.(03)

PROFESSIONAL ACTIVITIES

- Conference Reviewer for COCOON 2008, MSN 2008, ICDCN 2009, INFOCOM 2009, GameNets09, AAIM2009
- Internship at Bell Laboratories of Alcatel Lucent Company(6/2008-8/2008). We are building a Distributed Hash Table(DHT) algorithm for the Content Addressable Network(CAN) implementation of a P2P system. The intent is to use the CAN DHT in future research involving the use of SIP in P2P voice-over-IP (VoIP) system.
- Research Assistant at Institute for Neuro- and Bioinformatics, University of Luebeck, Germany (4/2007-6/2007): With a project on feature-based head tracking, I used the non-equispaced Fast Fourier Transform(NFFT) to compute geometric features on a 3D range data from a 3D time-of-flight camera.

SOCIAL ACTIVITIES

- Attend ACM Mobihoc 2009 (the 10th ACM International Symposium on Mobile Ad Hoc Networking and Computing) at New Orleans, LA May 17-May 21, 2009
- Attend ACM SenSys 2008 (The 6th ACM Conference on Embedded Networked Sensor Systems) at Raleigh, NC Nov. 5-Nov. 7, 2008
- Work as the receptor of ACM MobiHoc 2008 TPC(Technical Program Committee) meeting Illinois Institute of Technology, Chicago, IL Feb. 16, 2008
- Work as a receptor for Chicago Education Forum 2008 at the Fermi National Accelerator Laboratory, Chicago.
- Work as a receptor at 3rd charity conference of Tangs foundation with 16 Chinese Institutions participating in the conference at Zhejiang University, China.