Yanbin LU

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Research Interest

My interest lies in distributed and wireless systems, including routing algorithms and security issues.

EDUCATION

09/2007—present **Ph.D.** student in Computer Science, University of California, Irvine.

09/2004—07/2007 **M.S.** in Computer Science, Institute of Computing Technology, Chinese Academy of Sciences.

09/2000—07/2004 **B.S.** in Computer Science, Beijing University of Posts and Telecommunications.

Honors and Awards

09/2007	**Dean's Fellowship.**
02/2007	**Nokia Scholarship.**
10/2003	**The 28'th ACM International Collegiate Programming Contest Asia Regional bronze medal (Rank 10) as the team leader.**
10/2003	**IBM Chinese Excellent Student Scholarship (granted to 44 undergraduate students across China).**

Publications

[1] Xiaowei Yang, Yanbin Lu and Lei Zan, "Improving XCP to Achieve Max-Min Fair Bandwidth Allocation", accepted by *Elsevier Computer Networks*.

[2] Xin Liu, Xiaowei Yang and Yanbin Lu, "To Filter or to Authorize: Network-Layer DoS Defense Against Multimillion-node Botnets", in *Proc. ACM Sigcomm'08*, Seattle, Aug, 2008

[3] Yanbin Lu and Guoqing Zhang, "Maintaining Routing Tree in IEEE 802.16 Centralized Scheduling Mesh Networks," in *Proc. IEEE ICCCN'07*, Hawaii, Aug, 2007.

[4] Yanbin Lu and Guoqing Zhang, “Optimum Bandwidth Allocation Scheme for IEEE 802.16 Mesh Mode with Directional Antenna”, in *Proc. IEEE VTC’06 Fall*, Montreal, Canada, Sep. 2006.

[5] Yanbin Lu and Ling Qian, “A New Method of Traversing Firewall,” in *Proc. the 10th Lucent Technologies Software Symposium*, Lisle, Illinois, Sep. 2005.

ACADEMIC EXPERIENCE

02/2006 – 10/2006 Visiting student at Microsoft Research Asia

Conducting research on streaming P2P systems. Built a simulation platform for large scale P2P streaming overlay simulation based on *GTNets*. Analyzed the small world phenomenon in P2P membership overlay.

10/2005 - 01/2006 Research Assistant at Institute of Computing Technology, Chinese Academy of Sciences

Contributed to a wireless mesh project funded by National Natural Science Foundation. Modeled and improved the throughput of IEEE 802.16 mesh network in centralized scheduling mode.

11/2004 - 09/2005 Research Intern at Bell Labs Research China

Investigated the performance of firewall traversal methods by modeling and *ns2* simulation of TCP Reno under constrained media stream.

Designed and implemented a SIP proxy and client for traversing firewall and NAT. Implemented RTP protocol as a DirectShow filter.

Designed and simulated a novel unstructured P2P file searching method in Ad Hoc networks by *ns2*, tested in combination with such routing protocol as DSDV, DSR, AODV.

QUALIFICATIONS SUMMARY

- **Professional in *C/C++*, *Java, python* programming.**
- **Familiar with latex, gnuplot, svn.**
- **Expert in *ns2, Matlab* simulation.**