

Lichun Bao

University of California, Irvine
Computer Science
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Education

PhD, University of California, Santa Cruz, 2002.
Major: Computer Science

MS, Tsinghua University, 1997.
Major: Computer Science

BS, University of Science and Technology of China, 1994.
Major: Computer Science

Professional Positions

Assistant Professor, Computer Science, UC Irvine (2003-Present).

Senior Software Engineer, Meru Networks, Inc. (November 2002 - June 2003).

Research Assistant, Computer Communication Research Group, University of California, Santa Cruz. (September 1997 - December 2002).

Research Engineer, Cenus Technologies, Inc. (June 2000 - June 2002).

Intern, Sun Microsystems Laboratories. (March 2000 - June 2000).

Teaching Assistant, University of California, Santa Cruz. (October 1, 1997 - June 30, 1999).

Professional Memberships

ACM.

IEEE.

American Center for Mongolian Studies (ACMS). (January 24, 2007 - Present).

Awards and Honors

UCI/Faculty Career Development Award (FCDA). (2005 - 2006).

Best paper award, IFIP International Conference on Embedded And Ubiquitous Computing (EUC). (December 6, 2005).

J. Lu, L. Bao and T. Suda, "Coverage-Aware Sensor Scheduling in Dense Sensor Networks".

RESEARCH

Published Intellectual Contributions

Book Chapters, Other

- Bao, L., Sy, D. (2008). Coordinated Packet Traceback in Wireless Mesh Networks. In G. Aggelou (Ed.), *Wireless Mesh Networking with 802.16, 802.11, and ZigBEE*. McGraw-Hill.
- Bao, L., Sy, D. (2008). ODAR: On-Demand Anonymous Routing in Ad Hoc Networks. In R. Beyah, J. McNair, C. Corbett (Eds.), *Security in Ad-hoc and Sensor Networks*. Nova Science Publishers.
- Cho, Y., Bao, L., Goodrich, M. (2007). Secure Location-Based Access Control in WLAN Systems. In J. Zhen (Ed.), *Wireless and Sensor Networks Security*. Nova Science Publishers, Inc.
- Bao, L., Garcia-Luna-Aceves, J.J. (2004). Distributed Channel Access Scheduling for Ad Hoc Networks. In A. Boukerche (Ed.), *Algorithms and Protocols for Wireless and Mobile Networks*. CRC/Hall Publisher.

Journal Articles, Peer-Reviewed

- Lu, J., Bao, L., Suda, T. (2008). Probabilistic Self-Scheduling for Coverage Configuration in Wireless Ad-hoc Sensor Networks. *International Journal of Pervasive Computing and Communications*, 3(1).
- Bao, L., Garcia-Luna-Aceves, J.J. (2008). Computational Time-Division and Code-Division Channel Access Scheduling in Ad Hoc Networks. *Journal of Networks (JNW)*,(8).
- Lu, J., Bao, L., Suda, T. (2007). Coverage-Aware Sensor Engagement in Dense Sensor Networks. *Journal of Embedded Computing (JEC)*. (Special Issue on Embedded System Optimization).
- Bao, L., Garcia-Luna-Aceves, J.J. (2003). Receiver-Oriented Multiple Access in Ad Hoc Networks with Directional Antennas. *Mobile Networks and Applications (MONET)*.
- Bao, L., Garcia-Luna-Aceves, J.J. (2002). Distributed Dynamic Channel Access Scheduling for Ad Hoc Networks. *Journal of Parallel and Distributed Computing (JPDC)*,(Special Issue on Wireless and Mobile Ad Hoc Networking and Computing).

Other Published Writings

- Wu, D., Li, R., Bao, L. (2008). A Holistic Routing Protocol Design in Underground Wireless Sensor Networks. In *Proc. of The 4th International Conference on Mobile Ad-hoc and Sensor Networks (MSN)*. Wuhan, China.
- Bao, L. (2008). Location Authentication Methods for Network Access Control. In *Proc. of the 27th International Performance Computing and Communications Conference (IPCCC)*. Austin, TX, USA.
- Wu, D., Bao, L. (2008). Design and Evaluation of Localization Protocols and Algorithms in Wireless Sensor Networks Using UWB. In *Proc. of the 27th International Performance Computing and Communications Conference (IPCCC)*. Austin, TX, USA.

- Luo, J., Liu, H., Li, R., Bao, L. (2008). QoS-Oriented Asynchronous Clustering Protocol in Wireless Sensor Networks. In *Proc. of the IEEE Intl Conference on Wireless Communication, Networking and Mobile Networking (WICOM)*. Dalian, China.
- Gholamipour, A., Bozorgzadeh, E., Bao, L. (2008). Seamless Sequence of Software Defined Radio Designs through Hardware Reconfigurability of FPGAs. In *Proc. of The International Conference on Computer Design (ICCD)*. Lake Tahoe, CA, USA.
- Bao, L. (2007). A New Approach to Anonymous Multicast Routing in Ad Hoc Networks. In *Proc. of The Second International Conference on Communications and Networking in China (CHINACOM)*. Shanghai, China.
- Sy, D., Chen, R., Bao, L. (2006). ODAR: On-Demand Anonymous Routing in Ad Hoc Networks. In *Proc. of The Third IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*. (Acceptance Rate=25%).
- Cho, Y., Bao, L. (2006). Secure Access Control for Location-Based Applications in WLAN Systems. In *Proc. The Second International Workshop on Wireless and Sensor Networks Security (WSNS)*.
- Cho, Y., Bao, L., Goodrich, M. T. (2006). LAAC: A Location-Aware Access Control Protocol. In *Proc. of Proc. of International Workshop on Ubiquitous Access Control (IWUAC)*. San Jose, CA, USA.
- Sy, D., Bao, L. (2006). CAPTRA: CoordinAted Packet TRAceback. In *Proc. of The Fifth International Conference on Information Processing in Sensor Networks (IPSN)*. Nashville, TN, USA.
- Lu, J., Bao, L., Suda, T. (2005). Coverage-Aware Sensor Scheduling in Dense Sensor Networks. In *Proc. of IFIP International Conference on Embedded And Ubiquitous Computing (EUC)*. Nagasa, Japan. (The best paper award.).
- Lu, J., Bao, L., Suda, T. (2005). Probabilistic Self-Scheduling for Coverage Configuration in Sensor Networks. In *Proc. of the International Conference on Sensing Technology (ICST)*. Palmerston North, New Zealand.
- Tan, H., Zeng, W., Bao, L., Suda, T. (2005). A Unified Framework for Topology Management in Multi-Rate Ad Hoc Networks. In *Proc. of IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WIMOB)*. Montreal, Canada.
- Wang, J., Bao, L. (2005). Layer-2 Mobility Management in Hybrid Wired/Wireless Systems. In *Proc. of The Second International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks (QSHINE)*. Orlando, FL, USA.
- Zan, L., Wang, J., Bao, L. (2005). Personal AP Protocol for Mobility Management in IEEE 802.11 Systems. In *Proc. of The Second Annual International Conference on Mobile and Ubiquitous Systems: Networking and Services (MOBIQUITOUS)*. San Diego, CA, USA.
- Wang, J., Bao, L. (2005). Mobile Context Handoff in Distributed IEEE 802.11 Systems. In *Proc. of International Conference on Wireless Networks, Communications, and Mobile Computing (WIRELESSCOM)*. Maui, HI, USA.
- Tan, H., Zeng, W., Bao, L. (2005). PATM: Priority-based Adaptive Topology Management for Efficient Routing in Ad Hoc Networks. In *Proc. of The International Conference on Computational Science 2005 (ICCS)*. Atlanta, GA, USA.

- Tan, H., Zeng, W., Bao, L. (2005). Performance Evaluation of Topology Management in Multi-Rate Ad Hoc Networks. In *Proc. of IEEE Wireless and Communications and Networking Conference (WCNC)*. New Orleans, Louisiana, USA.
- Bao, L. (2004). MALS: Multiple Access Scheduling Based on Latin Squares. In *Proc. of IEEE MILCOM*. Monterey, CA, USA.
- Bao, L., Garcia-Luna-Aceves, J.J. (2003). Topology Management in Ad Hoc Networks. In *Proc. of The ACM International Symposium on Mobile Ad Hoc Networking and Computing (MOBIHOC)*. Annapolis, Maryland, USA.
- Bao, L., Garcia-Luna-Aceves, J.J. (2002). Hybrid Channel Access Scheduling in Ad Hoc Networks. In *Proc. of IEEE International Conference on Network Protocols (ICNP)*. Paris, France.
- Bao, L., Garcia-Luna-Aceves, J.J. (2002). Transmission Scheduling in Ad Hoc Networks with Directional Antennas. In *Proc. of ACM/IEEE The Annual International Conference on Mobile Computing and Networking*. Atlanta, Georgia, USA.
- Bao, L., Garcia-Luna-Aceves, J.J. (2002). Distributed Transmission Scheduling Using Code-Division Channelization. In *Proc. of IFIP-TC6 Networking*. Pisa, Italy.
- Kishaba, W., Vardakas, G., Bao, L., Garcia-Luna-Aceves, J.J., Kang, Y. (2001). Ad Hoc Networking with Beam Forming Antennas. In *Proc. of IEEE MILCOM*. Washington, D.C., USA.
- Bao, L., Garcia-Luna-Aceves, J.J. (2001). Channel Access Scheduling in Ad Hoc Networks with Unidirectional Links. In *Proc. of ACM/IEEE International Workshop on Discrete Algorithms and Methods for Mobile Computing and Communications (DIAL-M)*. Rome, Italy.
- Bao, L., Garcia-Luna-Aceves, J.J. (2001). A New Approach to Channel Access Scheduling for Ad Hoc Networks. In *Proc. of ACM/IEEE The Annual International Conference on Mobile Computing and Networking (MOBICOM)*. Rome, Italy.
- Bao, L., Garcia-Luna-Aceves, J.J. (2000). Unidirectional Link-State Routing with Propagation Control. In *Proc. of IEEE Mobile Multimedia Communications (MoMuC)*. Tokyo, Japan.
- Bao, L., Garcia-Luna-Aceves, J.J. (2000). A New Collision-Free Medium Access Control Protocol. In *Proc. of IEEE MILCOM*. Los Angeles, CA, USA.
- Bao, L., Garcia-Luna-Aceves, J.J. (1999). Link State Routing in Networks with Unidirectional Links. In *Proc. of IEEE International Conference on Computer Communications and Networks (ICCCN)*. Boston, Massachusetts, USA.

Presentations Given

- Bao, L., Visiting, "The Coexistence of Heterogeneous Wireless Systems Using Software Define Radios," Wuhan University, Wuhan, China P.R.. (December 12, 2008).
- Bao, L., The 4th International Conference on Mobile Ad-hoc and Sensor Networks (MSN), "A Holistic Routing Protocol Design in Underground Wireless Sensor Networks," Wuhan, China. (December 11, 2008).
- Bao, L., Visiting, "The Design of MAC Protocols in Wireless Mesh Networks," Hunan University, Changsha, China P.R.. (December 9, 2008).

Bao, L., Visiting, "The Coexistence of Heterogeneous Wireless Systems Using Software Define Radios," Hunan University, Changsha, China P.R.. (December 8, 2008).

Bao, L., Visiting, "Personal AP for Mobility Management in WLAN Systems," Hunan University, Changsha, China P.R.. (January 15, 2008).

Bao, L., Visiting, "Channel Access Scheduling in Ad Hoc Networks," Hunan University, Changsha, China P.R.. (January 14, 2008).

Bao, L., Tutorial, "IPv6," Korea Telecom, Irvine, CA. General introduction. (November 3, 2005).

Bao, L., IEEE Wireless and Communications and Networking Conference (WCNC), "Performance Evaluation of Topology Management in Multi-Rate Ad Hoc Networks," IEEE, New Orleans, Louisiana. (March 13, 2005).

Bao, L., IEEE MILCOM, "MALS: Multiple Access Scheduling Based on Latin Squares," IEEE, Monterey, CA. (October 1, 2004).

Bao, L., Invited talk, "Ad Hoc Networks," University of California, Irvine, Irvine, CA. General introduction. (October 2003).

Bao, L., ACM International Symposium on Mobile Ad Hoc Networking and Computing (MOBIHOC), "Topology Management in Ad Hoc Networks," ACM, Annapolis, Maryland. (June 1, 2003).

Bao, L., Visiting, "Neighbor-Aware Control in Ad Hoc Networks," University of California, Irvine, Irvine, CA. (April 21, 2003).

Bao, L., ACM/IEEE the Annual International Conference on Mobile Computing and Networking (MOBICOM), "Transmission Scheduling in Ad Hoc Networks with Directional Antennas," ACM/IEEE, Atlanta, Georgia, USA. (September 22, 2002).

Bao, L., ACM/IEEE the Annual International Conference on Mobile Computing and Networking (MOBICOM), "A New Approach to Channel Access Scheduling for Ad Hoc Networks," ACM/IEEE, Rome, Italy. (July 16, 2001).

Contracts, Grants and Sponsored Research

Cost Reimbursement Contract

Bao, Lichun (Principal Investigator), "Scalable Scheduling MAC Protocols in Multi-Channel MANETs," Raytheon, \$80,000.00. (October 17, 2007 - October 16, 2008).

Grant

Bao, Lichun (Principal Investigator), "Faculty Desktop Computing Initiative," UCI Office of Research, \$1,500.00. (February 6, 2008 - Present).

Bao, Lichun, "Networking Laboratory Development Grant," UCI/Calit2, \$100,000.00. (July 2003 - Present).

Bao, Lichun (Principal Investigator), "ECCS-IHCS: Adaptive Network Assimilations Through System Reconfigurability," NSF - National Science Foundation, \$98,995.00. (September 1, 2007 - August 31, 2009).

Bao, Lichun (Principal Investigator), "ECCS-IHCS: Adaptive Network Assimilations Through System Reconfigurability," NSF - National Science Foundation, \$97,204.00. (September 1, 2007 - August 31, 2008).

Bao, Lichun (Co-Principal Investigator), "CyberTrust Award," NSF - National Science Foundation, \$150,000.00. (2005 - 2007).

Bao, Lichun, "Faculty Career Development Award (FDCA)," UCI Academic Planning, \$5,500.00. (June 2006 - June 2007).

Bao, Lichun, "Travel Grant," UCI/CORCLR, \$1,000.00. (March 2006 - June 2006).

Intellectual Property

Garcia-Luna-Aceves, J.J., Bao, L., Patent, "System and Method for Ad Hoc Network Access Employing the Distributed Election of a Shared Transmission Schedule", US 7,046,639 B2, Regular, United States. (application: September 28, 2001, approve: September 2005).

Professional Service

ChinaCom, Technical program committee member and session chair., Shanghai, China. (2008).

ICCCN, Technical program committee member, St. Thomas, Virgin Islands, USA. (2008).

IEEE Globecom 2008 (CCNS Track), Technical program committee member. (2008).

IEEE WSNS, Technical program committee member, Atlanta, Georgia, USA. (2008).

WoWMoM, Co-Chair, Newport Beach, CA, USA, Appointed, Pro Bono. (2008).

ChinaCom (WCN), Technical program committee member, Shanghai, China. (2007).

IEEE INFOCOM, Technical program committee member, Anchorage, Alaska, USA. (2007).

IFIP Networking, Reviewer, Atlanta, Georgia, USA. (2007).

UC Discovery Program, Panelist, Berkeley, CA, USA. (2007).

WASA (International Conference on Wireless Algorithms, Systems and Applications), Technical program committee member, Chicago, IL, USA. (2007).

ACM PE-WASUN (International Workshop on Performance Evaluation of Wireless Ad Hoc, Sensor, and Ubiquitous Networks), Co-Chair, Torremolinos, Malaga, Spain, Appointed, Pro Bono. (2006).

IEEE INFOCOM, Reviewer, Appointed, Pro Bono, International. (2006).

IEEE MASS, Reviewer, Appointed, Pro Bono, International. (2006).

IEEE Transactions on Mobile Computing, Reviewer, Appointed, Pro Bono, International. (2006).

IEEE Wireless Communication Magazine, special issue on Inter-Vehicle Communications, Reviewer, Appointed, Pro Bono, International. (2006).

ISLPED, Reviewer, Appointed, Pro Bono, International. (2006).

Journal of Scheduling, Springer, Reviewer, Appointed, Pro Bono, International. (2006).

NSF NeTS Program, NOSS Panel on Algorithms and Protocols, Panelist, USA, Appointed, Pro Bono, National. (2006).

Third ACM International Workshop on Performance Evaluation of Wireless Ad Hoc, Sensor, and Ubiquitous Networks (PE-WASUN), Co-Chair. (2006).

Wireless Networks (WINET), Reviewer, Appointed, Pro Bono, International. (2006).

Ad Hoc Networks Journal, Elsevier, Reviewer, Appointed, Pro Bono, International. (2005).

ICC, Reviewer, Appointed, Pro Bono, International. (2005).

IEEE Transactions on Mobile Computing, Reviewer, Appointed, Pro Bono, International. (2005).

Mobile Computing and Communications Review (MC2R), Reviewer, Appointed, Pro Bono, International. (2005).

NSF NeTS Program, Panelist, Berkeley, CA, USA, Appointed, Pro Bono, National. (2005).

SIGMOD/PODS, Reviewer, Appointed, Pro Bono, International. (2005).

The Computer Journal, Oxford Journals, Reviewer, Appointed, Pro Bono, International. (2005).

University of California MICRO Program, Extramural Funding Reviewer, USA, Appointed, Pro Bono, State. (2005).

Wireless Networks (WINET), Reviewer, Appointed, Pro Bono, International. (2005).

Ad Hoc Networks Journal, Elsevier, Reviewer, Appointed, Pro Bono, International. (2004).

DoD EPSCoR PROGRAM, Extramural Funding Reviewer, USA, Appointed, Pro Bono, National. (2004).

European Transactions on Telecommunications, Special Issue on Self-Organization in Mobile Networking, Wiley, Reviewer, Appointed, Pro Bono, International. (2004).

IEEE INFOCOM, Reviewer, Appointed, Pro Bono, International. (2004).

IEEE Journal on Selected Areas in Communications (JSAC): Special Issue on Wireless Ad Hoc Networks, Reviewer, Appointed, Pro Bono, International. (2004).

IEEE MASS, Reviewer, Appointed, Pro Bono, International. (2004).

IEEE Transactions on Mobile Computing, Reviewer, Appointed, Pro Bono, International. (2004).

IEEE Transactions on Parallel and Distributed Systems, Reviewer, Appointed, Pro Bono, International. (2004).

IEEE Transactions on Wireless Communications, Reviewer, Appointed, Pro Bono, International. (2004).

IEEE/ACM BroadWISE Conference, Reviewer, Appointed, Pro Bono, International. (2004).

IEEE/ACM MOBIHOC, Reviewer, Appointed, Pro Bono, International. (2004).

IFIP/NPC, Reviewer, Appointed, Pro Bono, International. (2004).

International Journal of Communications and Networks, Korean Institute of Communications Sciences (KICS), Reviewer, Appointed, Pro Bono, International. (2004).

LANMAN, Reviewer, Appointed, Pro Bono, International. (2004).

University of California MICRO Program, Extramural Funding Reviewer, USA, Appointed, Pro Bono, State. (2004).

Wireless Networks (WINET), Reviewer, Appointed, Pro Bono, International. (2004).

"Broadcast and Multicast in Ad Hoc Networks" in the Military Communications Conference (MILCOM), Chair, Monterey, CA, USA, Appointed, Pro Bono, International. (2004).

"Wireless Services and Protocols" in IEEE/ACM First International Workshop on Broadband Wireless Services and Applications (BroadWISE), Chair, Appointed, Pro Bono, International. (2004).

Mobile Computing and Communications Review (MC2R), Reviewer, Appointed, Pro Bono, International. (2003).

University of California MICRO Program, Extramural Funding Reviewer, USA, Appointed, Pro Bono, State. (2003).

Professional Development

Workshop, "CRA Academic Careers Workshop," National Science Foundation, Washington, D.C., Washington, D.C.. (February 23, 2004 - February 24, 2004).

Research in Progress

"Base Station Localization Project" (On-Going)

Base station locations are usually confidential information maintained only by the wireless service providers. In order to find out their locations, we implement an HMM (hidden markov model) based localization algorithm to estimate their locations and signal strength information for our future cognitive radio research.

"Interests and Incentive based routing in VANET" (On-Going)

A Vehicular Ad-hoc NETWORK (VANET) is an inherently dynamic networking environment, in which network topology and data flows change frequently. Therefore, the traditional view of a Mobile Ad-hoc NETWORK (MANET) is no longer applicable in VANET. A new paradigm of MANET networking and communication has to be studied.

A VANET may define a rich set of applications. Traditionally, these applications have been narrowly defined to include practical public safety functions (vehicle safety inspection, emergency services warning, traffic situations, collision avoidance) or commercial functions (road usage tolling, parking fees, purchasing goods). We venture into such traditional functions as entertainment applications (chatting, multimedia sharing, common interest

sharing, public commentary). In addition, we add anonymity to VANET in our protocol designs and propose a set of mechanisms for anonymously data and packet routing.

We also introduce a social networking concept to VANETs, modeling of VANET communications, anonymity of communication, and a new routing algorithm to VANET. We will evaluate the performance of this work using the simulation tool, NCTUns 5.0.

"Medium Access Control Using Geographic Information and Latin Squares" (On-Going)

The essential tools Latin square are used extensively to study the performance improvements in WMNs (wireless mesh networks).

"Spatial Spectrum Reuse" (On-Going)

Rather than cognitively monitor and utilize the spectrum, we need to purposefully plan out heterogeneous wireless systems so that their mutual interference is minimized, and they can harmonically coexist.

As a first step, we will look at the coexistence of WiFi? system and GSM systems, and explore the challenges and mechanisms for their deployments.

"Wireless Systems Coexistence Using SDR" (On-Going)

We address the assimilation needs, challenges and approaches in communication networks in this project.

TEACHING

Teaching Experience

University of California, Irvine

COMPSCI 132, Section A, Computer Networks. (Spring 2008)
 COMPSCI 299, Section 3, Individual Study. (Spring 2008)
 COMPSCI 236, Section A, Wireless Networking. (Spring 2008)
 NET SYS 230, Section A, Wireless Networking. (Spring 2008)
 COMPSCI 299, Section 4, Individual Study. (Winter 2008)
 COMPSCI 299, Section 3, Individual Study. (Fall 2007)
 COMPSCI 236, Section A, Wireless Networking. (Spring 2007)
 NET SYS 230, Section A, Wireless Networking. (Spring 2007)
 COMPSCI 299, Section 4, Individual Study. (Winter 2007)
 COMPSCI 232, Section A, Internet. (Winter 2007)
 EECS 248, Section A, Internet. (Winter 2007)
 COMPSCI 299, Section 3, Individual Study. (Fall 2006)
 COMPSCI 132, Section A, Computer Networks. (Spring 2006)
 I&C SCI 299, Section 4, Economics in P2P Networks. (Spring 2006)
 COMPSCI 236, Section A, Wireless Networking. (Spring 2006)
 NET SYS 230, Section A, Wireless Networking. (Spring 2006)
 I&C SCI 199, Section 4, Mobility Protocols. (Winter 2006)
 I&C SCI 299, Section 4, Mobility Protocols. (Winter 2006)
 I&C SCI 299, Section 4, Individual Study. (Fall 2005)
 COMPSCI 132, Section A, Computer Networks. (Spring 2005)
 I&C SCI 299, Section 4, Individual Study. (Spring 2005)
 I&C SCI 299, Section 4, Individual Study. (Winter 2005)
 I&C SCI 298, Section 4, Thesis Supervision. (Winter 2005)
 COMPSCI 236, Section A, Wireless Networking. (Winter 2005)
 NET SYS 230, Section A, Wireless Networking. (Winter 2005)
 I&C SCI 280, Section B, Ad Hoc Networking. (Fall 2004)
 I&C SCI 299, Section 4, Individual Study. (Fall 2004)
 NET SYS 295, Section A, Networked Systems Research Seminar. (Fall 2004)
 I&C SCI 290, Section A, Research Seminar. (Fall 2004)
 I&C SCI 299, Section 4, Individual Study. (Spring 2004)
 COMPSCI 236, Section A, Wireless Networking. (Spring 2004)
 COMPSCI 132, Section A, Computer Networks. (Winter 2004)
 I&C SCI 299, Section 4, Individual Study. (Winter 2004)

Graduate Student Supervision

Doctoral Committee, Computer Science. (September 2008 - Present).
 Advised: Hotham Altwaijry

Doctoral Committee, Computer Science. (September 2008 - Present).
 Advised: Lin Shao

Doctoral Committee, Computer Science. (September 2008 - Present).
 Advised: Shih-Hsien Yang

Doctoral Committee, "Spectrum Access Scheduling (SAS) among Heterogeneous Wireless Systems," Electrical Engineering and Computer Science. (June 26, 2007 - Present).
 Advised: Shenghui Liao

Doctoral Committee. (September 2004 - Present).
 Advised: Denh Sy

Doctoral Committee. (September 2004 - Present).
 Advised: Jun Lu

Doctoral Committee, Computer Science. (September 2004 - Present).
Advised: Michael MOORE

Doctoral Committee, "Express Train Solution to Multirate Ad Hoc Networks," Computer Science.
(September 22, 2003 - Present).
Advised: Haixia Tan

Doctoral Committee. (January 2008 - March 2008).
Advised: Yohan Chae

Doctoral Committee. (September 2005 - September 2007).
Advised: Rex Chen

Doctoral Committee. (January 1, 2005 - July 31, 2006).
Advised: Younsun Cho

Doctoral Committee, Electrical Engineering and Computer Science. (November 2005).
Advised: Peifang ZHANG

Doctoral Committee, Computer Science. (August 2005).
Advised: Jeong YI

Doctoral Committee. (September 2004 - June 2005).
Advised: Jidong Wang

Doctoral Committee. (September 2004 - June 2005).
Advised: Lei Zan

SERVICE

Department Service

Member, The Computing and Network Policy Committee. (September 2006 - September 2007).

Member, Marshal of School of ICS Graduation Ceremony. (June 2007).

Member, Graduate student admission committee. (March 2007).

Member, Bren School of ICS Space Committee. (April 2006).

Member, Faculty recruitment committee. (2004).

Member, Marshal of School of ICS Graduation Ceremony. (June 2004).

Member, Graduate student admission committee. (March 2004).

University Service

Member, Graduate Student Housing Committee. (October 2008 - Present).

Member, Council on Student Experience. (September 2007 - Present).