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Vice Rector (Academic Affairs)  
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## Education

- Ph.D. in Electrical Engineering, School of Electrical Engineering, Purdue University, West Lafayette, Indiana, 1980.
- M.S. in Electrical and Computer Engineering, Department of Electrical and Computer Engineering, Wayne State University, Detroit, Michigan, 1977.
- B.S. in Electrical Engineering, Department of Electrical Engineering, National Taiwan University, Taipei, Taiwan, 1973.

## Research and Teaching Interests

Big Data; Pervasive Computing; Mobile Computing; Peer-to-Peer Computing; Wireless Sensor Networks, High-speed Networking; High Performance Computer Architecture; Internet and Web Technologies; Wireless Communication; Parallel and Distributed Systems.

## Professional Experience

- Chair Professor (1/15 to present), Department of Computer and Information Science, the University of Macau, Taipa, Macau
- Vice Rector of Academic Affairs (1/15 to present), the University of Macau, Taipa, Macau
- Chair Professor (7/05 to 12/2014), Professor (7/02 to 6/05), Head (7/02 to 6/08), Department of Computer Science and Engineering, the Hong Kong University of Science and Technology, Kowloon, Hong Kong
- Dean (3/11 to 12/2014), Acting Dean (7/10 to 2/11), Fok Ying Tung Graduate School, the Hong Kong University of Science and Technology, Kowloon, Hong Kong
- Special Assistant to the President (7/10 to 12/2014), the Hong Kong University of Science and Technology, Kowloon, Hong Kong
- Chief Scientist (9/06 to 8/11), National Basic Research Program of China (973 Program), Ministry of Science and Technology, China
- Director (5/06 to 6/10), Digital Life Research Center, HKUST Fok Ying Tung Graduate School, Guangzhou, China
- Director (11/04 to 12/2014), HKUST China Ministry of Education/Microsoft Research Asia IT Key Lab, Hong Kong

- Senior Advisor to the Dean of HKUST Fok Ying Tung Graduate School (10/08 to 6/10), Guangzhou, China
- Director (11/04 to 2/07), WebEx/HKUST Information Technology Institute, Hong Kong
- Affiliate Professor and Founding Director (01/08 to 10/10), Institute of Advanced Computing and Digital Engineering, Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China
- Overseas Assessor, Chinese Academy of Sciences (12/04 to 12/08)
- Honorary President (2004 to 2009), South China Institute of Software Engineering, Guangzhou University, Guangdong, China.
- Honorary Chair Professor (2005 to 2007), National Tsinghua University, Hsinchu, Taiwan, China.
- Visiting IV Endowed Chair Professor (2010 to 2013), Tsinghua University, Beijing, China.
- Distinguished Professor (March 2005 to February 2009), Shanghai Jiao Tong University, Shanghai, China
- Visiting Chair Professor (March 2009 to February 2013), Shanghai Jiao Tong University, Shanghai, China
- Guest Professor (7/10 to 7/13), National University of Defense Technology, Changsha, China.
- Honorary Professor (8/06 to 7/07), Asia University, Taiwan, China
- Visiting Professor (12/05 to 11/08), Sun Yat-sen University, Guangzhou, China,
- Guest Professor (7/07 to 7/10), Ocean University of China, Qingdao, China.
- Adjunct Professor (5/05 to 5/07), Beihang University, Beijing, China.
- Adjunct Professor (12/2007 to 11/2010), Beijing University of Posts and Telecommunications, Beijing, China.
- Guest Research Fellow (1/04 to 12/06), Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China.
- Guest Professor (7/04 to 6/07), Dept. of Computer Science and Engineering, Fudan University, Shanghai, China.
- Guest Professor (3/05 to 3/08), University of Science and Technology of China, Hefei, China.
- Guest Professor (6/05 to 6/07), Xinjiang University, Urumuqi, China.
- Co-founder, CEO and chief consultant (4/98 to 5/01), CC&T Technologies, Inc., Okemos, Michigan.
- Chief Technology Officer (7/96 to 8/97), LATIC Communications, Rockville, Maryland
- Program Director (8/95 to 7/96), Microelectronic Systems Architecture Program, National Science Foundation, Arlington, VA.
- Professor (7/89 to 6/03), Department of Computer Science and Engineering, Michigan State University, East Lansing, Michigan.
- Associate Professor (7/84 to 6/89), Department of Computer Science, Michigan State University.
- Assistant Professor (1/81 to 6/84), Department of Computer Science, Michigan State University.
- Research Scientist (9/87 to 5/88), Div. of Mathematics and Computer Science, Argonne National Lab.

- Visiting Scientist (6/82 to 9/82), Dept. of Computer Science, IBM San Jose (now Almaden) Research Lab.
- Research Associate (6/80 to 9/80), IBM San Jose Research Lab.

## **Professional Activities**

### **Member of Editorial Board**

- Associate Editor, ACM Transactions on Sensor Networks (2008 to present)
- Member of the Editorial Board of the Communication of the ACM (CACM) (2007 to present)
- Advisory and Regional Editor, Ad Hoc & Sensor Wireless Networks: An International Journal (2004 to present)
- Associate Editor, International Journal of Service-Oriented Computing and Applications, Springer, (2007 to 2012)
- Executive Editor-in-Chief, Frontiers of Computer Science, Springer and Higher Education Press (2006 to 2013)
- Editor, Pervasive and Mobile Computing, Elsevier Pub. (2006 to 2013)
- Chinese Science Bulletin, Springer and Science Press (2008 to 2013)
- International Journal of Pervasive Computing and Communications (2007 to 2013)
- Communications of CCF, China Computer Federation (2006 to 2009)
- International Journal of Grid and Utility Computing (2003 to 2013)
- Asian Journal of health and Information Sciences (2006 to present)
- International Journal of High Performance Computing and Networking (2004 to 2010)
- IEEE Trans. on Parallel and Distributed Systems (1994 to 1998)
- Journal of Information Science and Engineering (1996 to 2002)
- IEEE Trans. on Computers (1992 to 1996)
- Journal of Parallel and Distributed Computing (1987 to 1994)
- Advisory board member, Journal of Parallel and Distributed Computing (1999 to 2008)

### **Guest Editorship**

- A special issue on “Workstation Clusters and Network-based Computing” (with D.K. Panda), *Journal of Parallel and Distributed Computing*, February 1997 and June 1997.
- A special issue on “Software Tools for Parallel Programming and Visualization” (with K.C. Tai), *Journal of Parallel and Distributed Computing*, June 1990.
- A special issue on “Wireless Sensor Networks” (with Qingfeng Huang, Miodrag Potkonjak and Ying Zhang), *International Journal of Ad Hoc and Ubiquitous Computing*, December 2005.
- A special issue on “Novel Techniques for Analysis & Design of Cross-Layer Optimized Wireless Sensor Networks” (with Mischa Dohler and Stavros Toumpis), *EURASIP Journal on Wireless Communications & Networking*, 2007.

### **Program Evaluator**

- Computer Sciences Accreditation Commission (CSAC), 1989 to 1995.
- Accreditation Committee for Computer Science Programme, The Hong Kong Institution of Engineers, 2006-2010.

### **External Reviewer**

- Department of Computer Science, Southern Illinois University, Carbondale, IL, November 2000.
- Department of Computer Science, Univ. of Texas at Dallas, Dallas, TX, December 2000.
- Foundation of Science and Technology, Portugal, July 2001.
- Faculty of Science, Hong Kong Baptist University, March 17-19, 2004.
- Program for Promoting Academic Excellence of Universities (Phase II), National Science Council, Taiwan, ROC, 2004
- National Chair and Academic Awards, Ministry of Education, Taiwan, ROC, 2005-2006, 2009-2013.
- Department of Computing, Hong Kong Polytechnic University, September 28-29, 2006.
- Department of Computer Science and Institute of Information Systems and Applications, National Tsing Hua University, May 10-11, 2007.
- Expert Panel, Science and Technology Advisory Group, Executive Yuan, Taiwan, December 2008
- Department of Computer Science and Engineering, The Chinese University of Hong Kong, March 26-27, 2009.
- Information Systems Technology and Design, Singapore University of Technology and Design, May 27-28, 2013.

### **Invited Panelist or Panel Moderator**

- “The Past, Present, and Future of Distributed Systems,” *1992 Computer Science Conference*, Kansas City, May 1992.
- “Are Networks of Workstations Tomorrow's Supercomputers?” *1992 International Conference on Parallel Processing*, St. Charles, Illinois, August 18, 1992.
- “New Generation Workstations,” *1992 NSF Institutional Infrastructure Workshop*, East Lansing, Michigan, May 1992 (moderator).
- “New Generation Supercomputers,” *1992 NSF Institutional Infrastructure Workshop*, East Lansing, Michigan, May 1992 (moderator).
- “Will Workstation Clusters be Tomorrow's Supercomputers?” *1992 International Conference on Parallel and Distributed Systems*, Hsinchu, Taiwan, December 1992.
- “Analyzing Scalability of Parallel Algorithms and Architectures,” *1993 International Parallel Processing Symposium*, Newport Beach, CA, April 1993.
- “New Challenges Facing University Teaching in Parallel and Distributed Systems,” *1993 International Conference on Parallel and Distributed Systems*, Taipei, Taiwan, December 1993.
- “What Have We learned in Parallel and Distributed Systems?” *1993 International Conference on Parallel and Distributed Systems*, Taipei, Taiwan, December 1993 (moderator).

- “How much Adaptivity in Routing?” *Parallel Computer Routing and Communication Workshop*, University of Washington, Seattle, WA, May 17, 1994.
- “Is It Possible to Fairly Compare Interconnection Networks?” *1994 International Conference on Parallel and Distributed Systems*, Hsinchu, Taiwan, Dec. 1994.
- “Parallel Processing: What Have We Done Wrong?” *1994 International Conference on Parallel and Distributed Systems*, Hsinchu, Taiwan, Dec. 1994 (moderator).
- “Sea of Interconnection Networks: What's Your Choice?” *1994 International Conference on Parallel Processing*, St. Charles, Illinois, August 1994 (moderator). Panel summary appeared in IEEE Computer Society Technical Committee on Computer Architecture Newsletter, winter 1994, pp.31-44, 1994.
- “MPPs vs. NoWs: Who Will be the Winner?” *HPC-ASIA '95*, Taipei, Taiwan, September 23, 1995 (moderator).
- “For a Massive Number of Massively Parallel Machines: What Are the Target Applications, Who Are the Target Users, and What New R&D is Needed to Hit the Target?” *1996 IEEE International Parallel Processing Symposium*, April 15, 1996, Hawaii. Panel summary appeared in IEEE Parallel & Distributed Technology, pp. 63-69, Fall 1996.
- “For a Given Size Range of Parallel Machine - e.g., 256 to 1024 Commodity High-Performance Processors - What Interconnection Would You Use to Build a General Purpose MIMD Machine and Why?” *1996 ICPP Workshop on Challenges for Parallel Processing*, August 1996.
- “The Impact of the Internet: How Will the Internet Change the Discipline of Computer Science/Engineering?” *1996 International Computer Symposium*, December 1996 (moderator).
- “Future Interconnects for Network-based Parallel Computing: ATM vs. Ethernet vs. other.” *Workshop on Communication and Architectural Support for Network-based Parallel Computing (CANPC'97)*, February 1997.
- “Applications for the Ubiquitous High-performance Networks of Tomorrow,” 2002 International Phoenix Computer Communication Conference, April 2002.
- “Hong Kong Grid Application and Research Activities,” HKU/IBM Grid Computing Forum, Hong Kong, September 2003.
- “Database applications in Grid Computing,” 2003 National Database Conference, Changsha, China, October 2003.
- Review Panelist, National Science Foundation, 1989-1991, 1993-2002.
- “Roundtable on Computer Education,” *Computer Innovation* 6016, Dec. 1, 2005, Beijing, China.
- “The Top-three Hottest Research Topics in Computer Science in the Next Five Years”, Microsoft Research Asia Regional Theme Workshop, Beijing China, March 23-24, 2006.
- “Parallel Processing – The First 35 Years and The Next 35 Years”, *2006 International Conference on Parallel and Distributed Systems*, Columbus, Ohio, August 2006.
- “Future Trends: Computing as a Core Discipline,” the 31st Annual IEEE International Computer Software and Applications Conference (COMPSAC 2007), July 24-27, 2007, Beijing, China.
- “Sensor Network: Where Is It Going to Be?” *The 2008 IEEE International Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing (SUTC2008)*, June 11-13, 2008, Taichung, Taiwan.
- “Grand Challenges for Distributed Computing Systems,” The 12th International Workshop on Future Trends of Distributed Computing Systems (FTDCS 2008), October 21-23, 2008, Kunming, China.

- “Challenges in Mining Extremely Large-scale Datasets,” Digital Society for e-Human Forum, organized by INSA-Lyon University and Shanghai Jiaotong University, France Pavilion, 2010 Shanghai World Expo, May 13, 2010, Shanghai.
- Panel on Technical Challenges on Future Etscale Computing and High-end Microprocessors (未来 E 量级计算技术挑战及其对高端微处理器技术发展的影响), Conference on Future Computing (CFC2010), June 17-18, 2010, Changsha, China.
- Science/Technology and Education Sub-Forum (科研与教育分论坛), CEPA Nansha Forum 南沙实施 CEPA 先行先试综合示范区论坛, October 20, 2010, Nansha, Guangzhou, China.
- Panel on “Networking Aspects of CPS: Problems and Challenges”, The First International Workshop on Cyber-Physical Networking System in conjunction with IEEE Infocom 2011, April 15, 2011, Shanghai, China.
- Panel on “学者需要企业型思维吗?” 2103 中国计算机学会青年精英大会, May 26, 2013, Shenzhen, China.
- Panel Moderator on “数字媒体产业应用及技术发展趋势展望” 新一代视频压缩技术论坛, Shenzhen, China, July 13, 2014.

### **Tutorial Speaker**

- “Advanced Compiler Technology for High Performance Computing,” *1992 International Conference on Parallel Processing*, St. Charles, Illinois, August 1992
- “Advanced Parallel Compilation Techniques,” *1992 International Computer Symposium*, Taichung, Taiwan, December 1992.
- “Programming Support for Distributed Memory Computing Environments,” *1993 International Parallel Processing Symposium*, Newport Beach, CA., April 1993.
- “Programming Support for Distributed Memory Computing Environments,” *1993 International Conference on Distributed Computing Systems*, Pittsburgh, PA., May 1993.
- “High-Speed Networks for Distributed Computing,” *1996 International Conference on Distributed Computing Systems*, Hong Kong, May 1996.

### **Program Chair (or Co-Chair)**

- First Workshop on Parallel Processing, Hsinchu, Taiwan, December 20-21, 1990.
- 15th IEEE Annual International Computer Software and Applications Conference (COMPSAC'91), Tokyo, Japan, September 11-13, 1991.
- 1994 International Conference on Parallel and Distributed Systems (ICPADS'94), Hsinchu, Taiwan, December 1994.
- Third IEEE High Performance Computer Architecture Symposium (HPCA), San Antonio, TX, February 1-5, 1997.
- Sixth IEEE International Conference on Computer Communications and Networks, Las Vegas, Nevada, September 21-24, 1997.
- 2001 International Conference on Parallel Processing, Spain, August 2001.
- The 11<sup>th</sup> IEEE International Conference on Embedded and Real-time Computing Systems and Applications (RTCSA 2005), Industry Track, Hong Kong, August 2005.

- 2005 International Workshop on Sensor Networks and Applications (SNA05), Beijing, China, October 21-22, 2005.
- Seamless Digital Life, Nansha Science and Technology Forum: Key Technology Issues of Social-Economic Development, Nansha, China, Feb 24-25, 2006.
- The 12th IEEE International Workshop on Future Trends of Distributed Computing Systems (FTDCS 2008), Kunming, China, October 21 – 23, 2008
- The 2008 International Conference on Digital Life (ICDL'2008), Guangzhou, China, November 8-10, 2008.
- The 13th Joint International Computer Conference (JICC 2008), Guangzhou, China, November 11-13, 2008.
- The 4<sup>th</sup> International Conference on Digital Home (ICDH 2012), Guangzhou, China, November 23-25, 2012.
- The 5<sup>th</sup> International Conference on Digital Home (ICDH 2014), Guangzhou, China, November 28-30, 2014.

### **Conference/General Chair (or Co-Chair)**

- 1996 International Computer Symposium, Kaohsiung, Taiwan, December 1996.
- 1997 Communication Networks and Distributed Systems Modeling and Simulation Conference, Phoenix, AZ, January 1997.
- 1998 Communication Networks and Distributed Systems Modeling and Simulation Conference, San Diego, CA., January 1998.
- 1998 International Conference on Parallel and Distributed Systems (ICPADS'98), Tainan, Taiwan, December 1998.
- 1999 International Conference on Parallel and Distributed Computing Systems, Fort Lauderdale, Florida, August 1999.
- 2003 IEEE International Conference on Cluster Computing, Hong Kong, December 2003.
- 2004 IEEE International Conference on Communications, Circuits and Systems (ICCCAS), Chengdu, China, June 2004.
- 2005 International Conference on Information Technology and Sustainable Development of Western China, Xinjiang University, Urumuqi, Xinjiang, China, June 3-5, 2005.
- 2005 International Conference on Parallel Processing, Oslo, Norway, June 2005.
- The First Workshop on Mobility in Peer-to-peer Systems (MPPS'05), Columbus, Ohio, June 10, 2005.
- 2005 IEEE Conference on e-Business Engineering (ICEBE 2005), Beijing, China, October 2005.
- 2005 IFIP International Conference on Network and Parallel Computing (NPS05), Beijing, China, December 2005.
- 2005 NSFC Workshop on Future Directions in Distributed Computing and Data Processing, Baotou, China, August 2005.
- 2006 IEEE International Conference on Sensor Networks, Ubiquitous and Trustworthy Computing (SUTC2006), Taiwan, June 5-7, 2006.

- The 5<sup>th</sup> International Conference on Grid and Cooperate Computing (GCC 2006), Changsha, China, October 21-23, 2006.
- 2007 IEEE International Conference on e-Business Engineering (ICEBE 2007), October 2007, Hong Kong
- 2007 International Conference on Parallel and Distributed Systems (ICPADS'07), Taiwan, December 2007
- The First China National Conference on Wireless Sensor Networks (CWSN 2007), August 30 to September 2, 2007, Harbin, China
- The Tenth China Computer Science Deans/Chairs Forum, November 23-24, 2007, Hong Kong
- 2008 IEEE Annual Conference on Pervasive Computing and Communications (PerCom 2008), March 2008, Hong Kong
- The 3rd International Conference on Grid and Pervasive Computing (GPC 2008), May 25-28, 2008, Kunming, China
- The Fifth International ICST Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (QShine 2008), July 28 to 31, 2008, Hong Kong.
- The Second China National Conference on Wireless Sensor Networks (CWSN 2008), October 13-14, 2008, Chongqing, China
- The 6th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2009), October 2009, Hong Kong
- Workshop on Intelligent Storages for Extremely Large Datasets, November 21, 2009, Shenzhen, China
- The 2011 IEEE INFOCOM, Shanghai, China, April 2011.
- The 2011 IEEE/ACM International Conference on Green Computing and Communications (GreenCom 2011), Chengdu, China, August 4-5, 2011.

### **Other Committee Activities**

- Program Vice Chair, 13th Annual International Computer Software and Applications Conference (COMPSAC'89), Orlando, Florida, 1989.
- Panel Committee Chair, 1993 International Conference on Parallel and Distributed Systems (ICPADS'93), Taipei, Taiwan, December 1993.
- Awards Committee Chair, 14th International Conference on Distributed Computing Systems, Poznan, Poland, June 21-24, 1994.
- Program Vice Chair, 16th International Conference on Distributed Computing Systems, Hong Kong, May 1996.
- Program Vice Chair (Architecture Track), 1998 IEEE International Parallel Processing Symposium, 1998.
- IEEE Eckert-Mauchly Award Committee, 1996-1998 (chair 1998).
- IEEE Computer Society Fellow Evaluation Committee, 1995 to 1999.
- IEEE Concurrency (formally Parallel & Distributed Technology), Editor-in-Chief Search Committee, 1998.



- Awards Committee Chair, International Conference on Parallel and Distributed Systems, Aizu, Japan, 2000.
- Awards Committee Chair, 2002 International Conference on Parallel Processing, Vancouver, 2002.
- Program Vice Chair, 2006 International Conference on Parallel and Distributed Systems (ICPADS'06), Minneapolis, MN, 2006.
- International Liaison Chair, 27th IEEE International Conference on Distributed Computing Systems, Toronto, Canada, June 25-29, 2007.
- Program Vice Chair, 28th IEEE International Conference on Distributed Computing Systems, Beijing, China, June 2008.
- International Vice Chair, The 2009 IEEE INFOCOM, Rio de Janeiro, Brazil, April 19-25, 2009.
- Chair of the International Scientific Committee, 2010 International Conference on Digital Life, Guangzhou, China, December 9-12, 2010.

### **Member of Steering Committee or Advisory Committee**

- International Conference on High Performance Computing, India, 1995-1999
- HPC'ASIA 1995, Hsinchu, Taiwan, 1995.
- 10th International Conference on Parallel and Distributed Computing and Systems, Las Vegas, Nevada, October 28-31, 1998
- IEEE Computer Society Technical Committee on Computer Architecture, 1995 to 1999.
- IEEE Computer Society Technical Committee on Parallel Processing, 1997 to 1999.
- Seventh International Conference on Computer Communications and Networks, 1998.
- International Conference on Parallel and Distributed Computing and Networks (PDCN'98, 99)
- 13th International Conference on Parallel and Distributed Computing and Systems (PDCS'01), Anaheim California, August, 2001.
- 14th International Conference on Parallel and Distributed Computing and Systems (PDCS'02), Cambridge, Massachusetts, November 2002.
- Advisory board member, National Center for High Performance Computing, National Science Council, Taiwan, 1999 to 2002.
- 6th International Meeting on High Performance Computing for Computational Science (VECPAR 2004), Valencia, Spain, June 2004.
- Advisor, Interservice Internet Technologies Exposition & Conference 2003 (IiTEC2003), Hong Kong, 2003.
- First International Workshop on Building Intelligent Sensor Networks (BISON), Wuhan, China, October 2004.
- 2005 IEEE International Conference on e-Technology, e-Commerce and e-Service (EEE-05), Hong Kong, March 2005.
- Advisory Board Member, Center of Excellence: Wireless and Information Technology, Stony Brook University (SUNY Stony Brook), New York, 2004 to 2007.

- Technical Advisory Committee, Digital Media Technology R&D Institute, China (2004 to present)
- Advisory Committee, Computer and Communication Research Center, National Tsing Hua University, Taiwan, 2004 to present.
- Chair of the Steering Committee, International Conference on Mobile Ad-hoc and Sensor Networks (MSN), Dec 2005, Wuhan, China
- Computer Innovation 6016 (CI 6016), Beijing, China, Nov 30-Dec 3, 2005.
- 2006 IEEE International Conference on Communications, Circuits and Systems (ICCCAS), Guilin, China, June 2006.
- Chair of the Steering Committee, International Conference on Mobile Ad-hoc and Sensor Networks (MSN), Dec 2006, Hong Kong
- 2006 International Workshop on Sensor Networks and Applications (SNA06), Beijing, China, August 2006.
- The 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE 2008), Seoul, Korea, April 2008.
- International Conference on Sensor Technologies and Applications (SENSORCOMM 2007), October 14-20, 2007, Valencia, Spain.
- International Conference on Networking, Architecture, and Storage (NAS), 2007 to present
- The 2008 International Symposium on Parallel Architectures, Algorithms, and Networks (I-SPAN), May 7-9, 2008, Sydney, Australia
- Chair of the Steering Committee, IEEE International Conference on Parallel and Distributed Systems (ICPADS), 2007 to present
- The 2009 International Symposium on Parallel Architectures, Algorithms, and Networks (I-SPAN), December 14-16, 2009, Kaohsiung, Taiwan
- International Advisory Board, the 2010 International Conference on Ubiquitous Computing and Multimedia Applications (UCMA 2010), June 2010, India
- Steering Committee, IEEE Infocom (2011 to present)

### **Professional Membership**

- Member of ACM
- Member of The American Association for the Advancement of Science (AAAS)
- Member of IEEE Computer Society
- Member of the Hong Kong Institution of Engineers

### **Member of Program Committees**

- IEEE International Symposium on Computer Arithmetic, 1986
- IEEE International Conference on Distributed Computing Systems, 1986, 1990, 1992
- IEEE Annual International Computer Software and Applications Conference (COMPSAC), 1988, 1990, 1992, 1993, 2007
- Symposium on the Interface: Computing Science and Statistics, 1990

- International Computer Symposium, 1992, 1994
- International Conference on Parallel and Distributed Systems, 1992, 1993, 1997, 2000, 2001, 2004
- ISMM International Conference on Parallel and Distributed Computing and Systems, 1992
- IEEE International Parallel Processing Symposium, 1994, 1996
- International Conference on Parallel and Distributed Computing and Systems, 1997
- International Conference on Parallel Processing, 1994, 1995, 1996, 1997, 2003
- 27th ISATA Dedicated Conference on Supercomputer Applications in the Transportation Industries, Aachen, Germany
- IEEE Symposium on Parallel and Distributed Processing, 1994, 1995
- IEEE High-Performance Computer Architecture Symposium, 1995
- IEEE High Assurance Systems Engineering Workshop, 1996
- International Symposium on Parallel Architectures, Algorithms, and Networks (I-SPAN), 1996
- IEEE Massive Parallel Processor using Optical Interconnects, 1996, 1997
- Annual ACM/IEEE International Symposium on Computer Architecture, 1997
- Workshop on Communication and Architectural Support for Network-based Parallel Computing (CANPC'97), 1997
- Parallel Computing, Routing and Communication Workshop (PCRCW), 1997.
- The Second IASTED International Conference on Parallel and Distributed Computing and Networks (PDCN'98), 1998.
- The 22<sup>nd</sup> International Performance, Computing, and Communications Conference (IPCCC), Phoenix, Arizona, April 2003.
- The Second IEEE International Conference on Pervasive Computing and Communications (PerCom 2004), Orlando, Florida, March 2004.
- 2004 IEEE International Conference on Networking, Sensing and Control (ICNSC), Taipei, March 2004.
- The Second International Conference on Grid and Cooperative Computing (GCC2003), Shanghai, China, December 2003.
- The 5<sup>th</sup> ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD '04), Beijing, China, June 2004.
- The 2004 IEEE International Conference on Services Computing (SCC 2004), Shanghai, China, September 2004.
- The 2004 International Workshop on Security in Parallel and Distributed Systems, San Francisco, September 2004.
- The Third International Conference on Grid and Cooperative Computing (GCC2004), Wuhan, China, October 2004.
- IFIP International Conference on Network and Parallel Computing (NPC), 2004, 2007.

- The 1st IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS-2004), Florida, October 2004.
- The Seventh Asia Pacific Web Conference (APWeb'05), Shanghai, China, March 2005.
- The 2005 IEEE Workshop on High Performance Switching and Routing (HPSR2005), May 2005, Hong Kong
- 2005 International Workshop on Applications and Economics of Peer to Peer Systems (AEPP 2005), Nov. 2-5, 2005, Nanjing, China
- 2007/2009/2010 IEEE Annual Conference on Pervasive Computing and Communications (PerCom 2007), March 26-30, 2007, New York.
- First ACM International Workshop on Mobile Opportunistic Networking (MobiOpp 2007), June 11, 2007, Puerto Rico
- Sixth Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2009), Rome Italy, June 22-26, 2009.

## **Awards and Honors**

### ***Community Recognition***

- Fellow of IEEE, for contributions to parallel processing and distributed systems, 1994.
- Distinguished Faculty Award, for contributions to excellent teaching, research, and service, Michigan State University, 1994.
- Fellow of HKIE (The Hong Kong Institution of Engineers), 2003.
- Fellow, Hong Kong Academy of Engineering Sciences (HKAES), 2008.
- Overseas Outstanding Contribution Award, China Computer Federation, 2009.
- National-level Talent (深圳市国家级人才), Shenzhen Municipality, 2009/3 to 2014/2.
- 教育部 2010 年度高等学校科学研究优秀成果自然科学一等奖, 基于非测距的无线网络定位理论与方法研究, First Class in Natural Sciences for contributions in “Range-free Localization and Localizability for Wireless Network and IOT: Theory and Practice,” Awards for Research Excellence presented by the Ministry of Education, 2010.
- 国家自然科学奖 (二等奖), 国务院国家科学技术奖, 基于非测距的无线网络定位理论与方法研究。State Natural Science Award (Second Class) of The State Science and Technology Awards for contributions in “Range-free Localization and Localizability for Wireless Network and IOT: Theory and Practice,” by the State Council of the People's Republic of China, 2011.

### ***Best Paper Awards***

- The Outstanding Paper Award (with A. Nanda), “MAD Kernel: An Experimental Testbed to Study Multiprocessor Memory System Behavior,” *1992 International Conference on Parallel Processing*, St. Charles, Illinois, August 17, 1992.
- The Outstanding Paper (with C. Glass), “The Turn Model for Adaptive Routing,” *19th Annual ACM/IEEE International Symposium on Computer Architecture*, Gold Coast, Australia, May 19-21, 1992 (recommended for publication in JACM). In 1998, this paper was selected as one of the 41 most significant impact papers in the last 25 years in computer architecture area.

- The Outstanding Paper Award (with Y.H. Liu, C.E. Wu, P. Dantzig), “A Distributed Connection Manager Interface for Web Services on IBM SP Systems,” *1996 International Conference on Parallel and Distributed Systems*, Tokyo, June 1996.
- The Outstanding Paper Award (with J. Park, H.A. Choi, N. Nupairoj), “Construction of Optimal Multicast Trees Based on the Parameterized Communication Model,” *1996 International Conference on Parallel Processing*, St. Charles, Illinois, August 17, 1996.
- The Best Paper Award (with C. Hu, Yanmin Zhu, J. Huai and Yunhao Liu), “S-Club: An Overlay Based Efficient Service Discovery Mechanism in CROWN Grid,” the 2005 IEEE International Conference on e-Business Engineering (ICEBE 2005), Beijing, China, October 18-20, 2005.
- The Outstanding Paper Award (with Yunhuai Liu and Qian Zhang), “Opportunity-based Topology Control in Wireless Sensor Networks,” *the 28th IEEE International Conference on Distributed Computing Systems (ICDCS 2008)*, Beijing, China, June 17-19, 2008.
- The Best Paper Award (with Ruobing Jiang, Yanmin Zhu, and Xin Wang), “TMC: Exploiting Trajectories for Multicast in Sparse Vehicular Networks,” in Proc. of *The 8th International Conference on Mobile Ad-hoc and Sensor Networks (MSN 2012)*, Chengdu, China, Dec. 14-16, 2012.
- The Best Paper Award (with Jiang Xiao, Kaishun Wu, Youwen Yi, and Lu Wang), “FIMD: Fine-grained Device-free Motion Detection,” Proc. of the 18th IEEE International Conference on Parallel and Distributed Systems (ICPADS 2012), Singapore, December 17-19, 2012 (1 out of 294 papers).
- The Best Paper Award (with Yongpan Zou, Guanhua Wang and Kaishun Wu), “SmartSensing: Sensing Through Walls with Your Smartphone!” in Proc. of the 11th IEEE International Conference on *Mobile Ad-hoc and Sensor Systems (MASS 2014)*, Philadelphia, Pennsylvania, USA, October 28-30, 2014.

### **Invited Keynote Speakers**

- Invited Keynote Speaker, “A Layered Classification of Parallel Computer Systems,” *1991 International Conference for Young Computer Scientists*, Beijing, China, July 27, 1991.
- Invited Keynote Speaker, “From Computer Architecture to Router Architecture,” 1998 International Computer Symposium, Computer Architecture Conference, December 1998.
- Invited Keynote Speaker, “Parallel and Distributed Systems: Looking Backward and Moving Forward,” 1999 International Conference on Parallel and Distributed Systems, August 1999.
- Invited Keynote Speaker, “From Voice over IP to Video over IP,” Workshop on Trends in Video Conferencing, Taiwan National Youth Commission, Taiwan Government, March 2000.
- Invited Keynote Speaker, “Pervasive Computing and New Challenges,” 2003 National Database Conference, Changsha, China, October 2003.
- Invited Keynote Speaker, “Pervasive Computing and New Challenges,” 2003 International Conference on Parallel Processing, Kaohsiung, Taiwan, October 2003.
- Invited Keynote Speaker, “Evolution of Interconnection Networks: The impact on the design of parallel algorithms,” The 7<sup>th</sup> International Symposium on Parallel Architectures, Algorithms, and Networks (I-SPAN), Hong Kong, May 2004.
- Invited Keynote Speaker, “Challenges in P2P Computing,” The Second International Symposium on Parallel and Distributed Processing and Applications (ISPA04), Hong Kong, December 2004.

- Invited Keynote Speaker, “Can Grid Computing Survive without a Business Model?” The First Workshop on Grid Technologies and Applications, Hsinchu, Taiwan, December 2004.
- Invited Keynote Speaker, “Challenging Applications in Wireless Sensor Networks,” Computer Networking and Future Life, National Tsing Hua University, Hsinchu, Taiwan, March 21, 2005.
- Invited Keynote Speaker, “New Challenges in Wireless Sensor Networks,” CAISER Workshop on Wireless Sensor Network, University System of Taiwan (UST), Hsinchu, Taiwan, March 28, 2005.
- Invited Keynote Speaker, “New Challenges in Wireless Sensor Networks,” 2005 International Conference on Information Technology and Sustainable Development of Western China, Xinjiang University, Urumuqi, Xinjiang, China, June 3-5, 2005.
- Invited Keynote Speaker, “Are Lessons Learnt in Mobile Ad Hoc Networks Useful for Wireless Sensor Networks?” China National Computer Conference, Wuhan, China, October 13-15, 2005.
- Invited Keynote Speaker, “Are Lessons Learnt in Mobile Ad Hoc Networks Useful for Wireless Sensor Networks?” International Workshop on Sensor Networks and Applications, Beijing, China, October 21, 2005.
- Invited Keynote Speaker, “Wireless Sensor Networks and Their Applications,” The 11<sup>th</sup> Joint International Computer Conference, Nov. 10-12, 2005, Chongqing, China.
- Invited Keynote Speaker, “Radio Signal Strength: Free Lunch for Localization?” 2005 International Conference on Mobile Ad-hoc and Sensor Networks (MSN2005), Dec. 13-15, Wuhan, China.
- Invited Keynote Speaker, “Are Lessons Learnt in Mobile Ad Hoc Networks Useful for Wireless Sensor Networks?” The Second International Conference on Embedded Software and Systems (ICCESS 2005), Dec. 16-18, 2005, Xi’an, China.
- Invited Keynote Speaker, “Experiencing Digital Life,” Forum on Seamless Digital Life, Nansha Science and Technology Forum: Key Technology Issues of Social-Economic Development, Nansha, China, Feb. 24-25, 2006.
- Invited Keynote Speaker, “Experiencing Digital Life,” The 2006 International Conference on Grid and Pervasive Computing (GPC 2006), May 3-5, 2006, Taichung, Taiwan.
- Invited Keynote Speaker, “Radio Signal Strength: Free Lunch for Localization?” The 4th International Conference on Communications, Circuits and Systems (ICCCAS06), June 25-28, Guilin, China
- Invited Keynote Speaker, “Are Lessons Learnt in Mobile Ad Hoc Networks Useful for Wireless Sensor Networks?” The 2006 International Workshop on Networking, Architecture, and Storages (IWNAS06), August 1-3, 2006, Shenyang, China.
- Invited Keynote Speaker, “Radio Signal Strength: Free Lunch for Localization?” The Second Workshop on Wireless, Ad Hoc, and Sensor Networks (WASN’06), August 10, 2006, Taiwan.
- Invited Keynote Speaker, “Middleware for Wireless Sensor Networks,” *The Tenth IEEE International EDOC Conference, Middleware for Web Services Workshop* (MWS 2006), October 16, 2006, Hong Kong.
- Invited Keynote Speaker, “How Did I Survive in Academic World?” The 2006 Doctoral Forum of China on Optical-Electronic and Information Technology, Nov. 3, 2006, Wuhan, China.
- Invited Keynote Speaker, “Middleware for Wireless Sensor Networks,” *The 2006 International Computer Symposium* (ICS 2006), December 5, 2006, Taipei, Taiwan.

- Invited Keynote Speaker, “China’s National Research Project on Wireless Sensor Networks,” *The First China National Conference on Wireless Sensor Networks (CWSN 2007)*, Harbin, China, August 31 to September 2, 2007.
- Invited Keynote Speaker, “China’s National Research Project on Wireless Sensor Networks,” *The 2007 International Conference on Intelligent Pervasive Computing (IPC-07)*, October 12-13, 2007, Jeju Island, Korea
- Invited Keynote Speaker, “China’s National Research Project on Wireless Sensor Networks,” *The 2007 China National Computer Conference*, October 19-20, 2007, Suzhou, China
- Invited Keynote Speaker, “China’s National Research Project on Wireless Sensor Networks,” *The 2007 National Annual Conference on High Performance Computing (HPC China 2007)*, October 26-28, 2008, Shenzhen, China
- Invited Keynote Speaker, “Strategies in Publishing Papers: From Academic Evaluation System Point of View 从学术评价体系看文章发表策略,” China Computer Federation (CCF) Young Computer Scientists & Engineers Forum 中国计算机学会青年计算机科技论坛 (YOCSEF), December 22, 2007, Beijing, China.
- Invited Keynote Speaker, “Revitalization of CS Undergraduate Education,” US NSF CPATH Workshop on Internationalization of Computer Science Education: The Pacific Rim Community Model, May 16-18, 2008, Portland, Oregon
- Invited Keynote Speaker, “China’s National Research Project on Wireless Sensor Networks,” *The 2008 IEEE International Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing (SUTC2008)*, June 11-13, 2008, Taichung, Taiwan.
- Invited Keynote Speaker, “China’s National Research Project on Wireless Sensor Networks,” *The 2008 International Conference on Embedded Software and Systems (ICSS 2008)*, July 29-31, 2008, Chengdu, China.
- Invited Keynote Speaker, “Multi-core Computing: Any New Challenges?” *The Inaugural Symposium on Parallel Algorithms, Architectures and Programming (PAAP08)*, September 16-18, 2008, Hefei, China
- Invited Keynote Speaker, “Digital City Monitoring and Emergency management” *The 2008 China National Computer Conference*, September 26-27, 2008, XiAn, China
- Invited Keynote Speaker, “Monitoring of Digital City,” *The Second China National Conference on Wireless Sensor Networks (CWSN 2008)*, Chongqing, China, October 13-15, 2008.
- Invited Keynote Speaker, “对学生研究与创新能力培养的一些浅见,” The Fourth College Computer Science Curriculum Development Forum, 第四届大学计算机课程报告论坛, Wuhan, China, October 18-19, 2008.
- Invited Keynote Speaker, “IT Innovation: From Digital Life to Digital City,” The Fourth Annual Meeting of Shanghai Pudong Young Scientists and Engineers, 中国计算机学会 YOCSEF 青年科学家论坛暨上海浦东新区第四届学术年会, October 20, 2008, Shanghai, China.
- Invited Keynote Speaker, “China’s National Research Project on Wireless Sensor Networks,” *The 2008 International Conference on Wireless Algorithms, Systems and Applications (WASA 2008)*, October 26-28, 2008, Dallas, Texas
- Invited Keynote Speaker, “Lessons Learned from Running an Unsuccessful Startup,” 长江商学院领袖先修班精英论坛, Cheung Kong Graduate School of Business, November 9, 2008, Hong Kong

- Invited Keynote Speaker, “IT Innovation: From Digital Life to Digital City,” The 2008 International Conference on Digital Life (ICDL’2008), Guangzhou, China, November 8-10, 2008
- Invited Keynote Speaker, “Digital City Monitoring and Emergency Management,” *The 14<sup>th</sup> IEEE International Conference on Parallel and Distributed Systems (ICPADS 2008)*, December 8-10, 2008, Melbourne, Australia
- Invited Keynote Speaker, “From Data Collection to Knowledge Discovery” *The 2009 IEEE International Conference on Networking, Architecture, and Storage (NAS 2009)*, July 9-11, 2009, Zhangjiajie, China
- Invited Keynote Speaker, “Challenges in Mining Cyber-Physical Systems” *The 8<sup>th</sup> International Conference on Embedded Computing and the 2009 International Conference on Scalable Computing and Communication*, September 25-27, 2009, Dalian, China
- Invited Keynote Speaker, “Challenges in Mining Cyber-Physical Systems” *Huawei-Hong Kong Innovation Workshop on Next-Generation Networks Architecture and Disruptive Technologies*, October 10, 2009, Shenzhen, China
- Invited Keynote Speaker, “回顾国内计算机科研的发展: 一个海外学者的观点” *The 2009 China National Computer Conference*, October 23-24, 2009, Tianjin, China
- Invited Keynote Speaker, “我们的大学在追求什么?” China Computer Federation (CCF) Young Computer Scientists & Engineers Forum 大学精神今何在论坛, 中国计算机学会青年计算机科技论坛 (YOCSEF), December 12, 2009, Beijing, China
- Invited Keynote Speaker, “Challenges in Mining Cyber-Physical Systems,” Workshop on Cloud Computing and Cyber-Physical Systems, Dalian University of Technology, Dalian, China, August 3-4, 2010.
- Invited Keynote Speaker, “From Digital Home to Smart Home,” International Conference on Digital Home, Guangdong Digital Home Consortium, Zhongshan City, Guangdong, China, August 16, 2010.
- Invited Keynote Speaker, “物联网带来的新挑战,” 深入学习市第五次党代会精神加快转变经济发展方式专题研讨班, 深圳党校, Shenzhen, China, August 17, 2010.
- Invited Keynote Speaker, “New Challenges of IoT,” Workshop on Internet of Things, Ocean University of China, Qingdao, China, August 28-29, 2010.
- Invited Keynote Speaker, “物联网带来的新挑战,” 深入学习市第五次党代会精神加快转变经济发展方式专题研讨班, 龙岗党校, 龙岗, Longgang, China, August 31, 2010.
- Invited Keynote Speaker, “物联网带来的新商机,” 第七届中国国际中心企业博览会中小企业信息化论坛, Guangzhou, China, September 15, 2010.
- Invited Keynote Speaker, “Challenges in Mining Cyber-Physical Systems,” The 7th International Conference & Expo on Emerging Technologies for a Smarter World (CEWIT 2010), Incheon, Korea, September 27-29, 2010.
- Invited Keynote Speaker, “New Challenges of IoT,” Forum on Internet of Things, *The 2010 China National Computer Conference*, Hangzhou, China, October 11, 2010.
- Invited Keynote Speaker, “计算机人才的培养: 永无止境的挑战?” 第三届全国计算机组成与体系结构课程及计算机工程人才培养研讨会, Changsha, China, November 6-7, 2010
- Invited Keynote Speaker, “New Challenges of IoT” The Global IOT Industry Development (Shanghai) Forum 2010 (2010 全球物联网产业发展 (上海) 论坛), Shanghai, China, November 8, 2010



- Invited Keynote Speaker, “New Challenges of IoT,” *The 2010 IEEE International Conference on e-Business Engineering (ICEBE 2010)*, Shanghai, China, November 10-12, 2010.
- Invited Keynote Speaker, “物联网带来的新挑战 New Challenges of IoT” 第三届全国高校计算机网络课程教学研讨会, Nanjing, China, December 9-10, 2010
- Invited Keynote Speaker, “From Digital City to Smart City,” The 2010 International Conference on Digital Life (ICDL’2010), Guangzhou, China, December 10-12, 2010.
- Invited Keynote Speaker, “物联网带来的新商机,” 中兴通讯第一届物联网大会, Chongqing, China, February 25, 2011.
- Invited Keynote Speaker, “Internet of Healthcare Things,” The 2<sup>nd</sup> International Workshop on Sustainable Medical Collaboration in East & West 2011 (SMCEW 2011), September 22-23, 2011, Korea.
- Invited Keynote Speaker, “Challenges and Opportunities in the Internet of Things,” The First International Workshop on Computing and Networking for Internet of Things,” January 3, 2012, Hong Kong.
- Invited Keynote Speaker, “Smart Healthcare: From IoT to Cloud Computing,” The 5<sup>th</sup> Alliance of Cloud Computing Technologies and Applications Conference (ACCTA), August 31, 2012, Hsinchu, Taiwan.
- Invited Keynote Speaker, “Challenges and Opportunities in the Internet of Things,” Workshop on Internet of Things, College of Engineering, Nanyang Technological University, October 18-19, 2012, Singapore.
- Invited Keynote Speaker, “Challenges and Opportunities in the Internet of Things,” The 2013 Circuits and Systems Society Forum on Emerging & Selected Topics (CAS-FEST), The 2013 IEEE International Symposium on Circuits and Systems (ISCAS), May 19, 2013, Beijing, China.
- Invited Keynote Speaker, “从创业失败中寻求教训,” 2013 中国计算机学会青年精英大会, May 26, 2013, Shenzhen, China.
- Invited Keynote Speaker, “从斯诺登事件看大数据如何改变世界,” The 7th China Conference on Wireless Sensor Networks (CWSN2013), October 17-19, 2013, Qingdao, China
- Invited Keynote Speaker, “From Snowden to Big Data,” HKAES Distinguished Lecture - Computing for the Future of the Planet, November 9, 2013, Hong Kong.
- Invited Keynote Speaker, “From Snowden to Big Data,” The 10th ACM-HK Student Research and Career Day, November 19, 2013, Hong Kong.
- Invited Keynote Speaker, “Never Stop Eating for Fear of Choking: From Snowden to Smart City,” Launch Forum “VISIONS OF THE CITY”, HKUST Leadership and Public Policy Executive Education Program, Oxford-HKUST Leadership and Public Policy Series, January 8, 2014, Hong Kong.
- Invited Keynote Speaker, “From Snowden to the Core of Smart City,” The Second Academician Forum on Smart Cities and Systems (SCAS): Smart Cities and Big Data: Opportunities and Challenges, March 24, 2014, Hong Kong.
- Invited Keynote Speaker, “Making Big Profits From Big Data,” The 35<sup>th</sup> Asian Racing Conference, May 7, 2014, Hong Kong
- Invited Keynote Speaker, “大数据如何改变世界: 从斯诺登事件谈起,” 2014 年高等教育信息化创新论坛, 教育部科技发展中心, May 8, 2014, XiAn, China
- Invited Keynote Speaker, “大数据如何改变世界: 从斯诺登事件谈起,” International Symposium on Large-scale Experiments in Future Network Testbed, May 17, 2014, Nanjing, China

- Invited Keynote Speaker, “What Is the Big Idea behind Big Data?” The 2014 IEEE International Conference on Internet of Things, September 1-3, 2014, Taipei, Taiwan.
- Invited Keynote Speaker, “What Is the Big Idea behind Big Data?” Science-for-Lunch, Hong Kong University of Science and Technology, November 11, 2014, Hong Kong, China.
- Invited Keynote Speaker, “What Is the Big Idea behind Big Data?” The Sixth Asia-Pacific Symposium on Internetware, November 17, 2014, Hong Kong, China.

### **Invited Speakers**

- Invited Plenary Speaker, “Perspectives on Massively Parallel Computation: System Software,” *The Fourth Symposium on the Frontiers of Massively Parallel Computation (Frontiers'92)*, McLean, Virginia, October 21, 1992.
- Invited Plenary Speaker, “Can Internet Telephony Replace Traditional Telephony: Challenging Existing Telecommunications and Beyond,” CompuForum'97, Taipei, Taiwan, June 5, 1997.
- Invited Plenary Speaker, “An Internet Emulation Facility,” 1998 International Conference on Parallel and Distributed Systems, December 1998.
- Invited Speaker, “The Impact of the Internet on Human Social Behavior,” Beijing Forum: The Harmony and Prosperity of the Civilizations,” sponsored by Beijing Municipal Government and Peking University, Beijing, China, August 2004.
- Invited Speaker, “IT Education in Hong Kong,” China Computer Science Head/Dean Forum, Beijing China, August 2004.
- Invited Speaker, “Ubiquitous Computing and City Modernization,” International Forum on Modernized International Metropolis & Grid Management, the Sixth Forum of Shanghai International Industry Fair, November 3, 2004.
- Invited Speaker, “Wireless Sensor Networks and Their Applications,” Economic Globalization and the Choice of China, Shanghai Forum 2005, May 15-17, Shanghai, China.
- Invited Speaker, “Trustworthy Peer-to-peer Computing,” Symposium on Risk Management, organized by INFORMATICS Professional Development Center, Hong Kong Convention & Exhibition Center, April 2005.
- Invited Speaker, “Windows Core Technology and Curriculum,” Microsoft Research Asia Theme Workshop 2005, Beijing, China, May 27, 2005.
- Invited Speaker, “Are Lessons Learnt in Mobile Ad Hoc Networks Useful for Wireless Sensor Networks?” Symposium on Computing Technologies, Shanghai Key Lab of Intelligent Information Processing, Fudan University, Shanghai, September 25-26, 2005.
- Invited Speaker, “Experiencing Digital Life,” Microsoft Workshop on Embedded Systems for Digital Home, September 8, 2006, Shenzhen, China.
- Invited Speaker, “Experiencing Digital Life,” Conference on Exploring the Use of Modern Information & Communications Technology with the Academia, Office of the Government Chief Information Officer, October 25, 2006, Hong Kong
- Invited Speaker, “IT Innovation: From Digital Life to Digital City,” Wireless and Mobile Services and Technology Symposium, Office of the Government Chief Information Officer and Commerce and Economic Development Bureau, March 27, 2008, Hong Kong

- Invited Speaker, “Efficient Support for Airport Wireless Access” *Next-Generation Information Systems for Commercial Aviation and it's Opportunities for Innovation and Technology of HK*, October 2, 2008, Hong Kong Science Park, Hong Kong.
- Invited Speaker, “Digital City Monitoring and Emergency Management,” *Workshop on D2D: Digital City Monitoring and Emergency Management*, October 25, 2008, Shenzhen, China
- Invited Speaker, “Digital City Monitoring and Emergency Management,” *the Second Joint Workshop of Beijing, Hong Kong and Kyoto on Computational Mathematics, Computer and Systems Sciences (CMCSS)*, March 14-15, 2009, Kyoto, Japan
- 北京大学信息技术与信息化名家讲坛, “人在旅途: 人生在追求什么?” 北京大学信息科学技术学院 School of Electronics Engineering and Computer Science, Peking University, May 29, 2009, Beijing, China
- “打造中国的数据中心”, 中国科技部信息技术发展战略高峰论坛, August 20-22, 2009, 北京.
- Invited Speaker, “计算机人才的培养: 永无止境的挑战?” The Twelfth China Computer Science Deans/Chairs Forum, November 6, 2009, Hong Kong
- Distinguished Lecturer, “Challenges in Mining Cyber-Physical Systems,” Institute of Information Science, Academia Sinica, March 8, 2010, Taipei
- 广州南沙新区发展定位与战略: 粤港校院长高端论坛, March 17, 2011, Guangzhou.
- 穗港科技合作交流会, “物联网与智慧城市”, 广州市科技周, May 18, 2011, Guangzhou
- Invited Speaker, “Smart Green Building Initiative at HKUST,” US-China Collaborations in Computer Science and Sustainability: A Workshop (Workshop Theme: Sustainability Challenge), DIMACS, Rutgers University, September 19-20, 2011, New Jersey, USA.
- Cray Distinguished Speaker, “New Challenges of Smart Cities,” Department of Computer Science and Engineering, University of Minnesota, March 19, 2012, Minneapolis, MN, USA.
- Invited Speaker, “智慧医疗: 从物联网到云计算,” 在 “云计算与复杂系统中的科学问题和核心技术” 技术科学论坛, 中国科学院信息技术学部与技术科学部, March 27-28, 2012, Hangzhou, China.
- Invited Speaker, “物联网与智慧旅游: 引领科技时代的人文关怀,” 贵州省旅游局, April 6, 2012, 贵阳, 贵州。
- Invited Speaker, “物联网与智慧城市,” 贵州省观风论坛, 贵州省领导干部周末大讲坛, April 7, 2012, 贵阳, 贵州.
- Invited Speaker, “New Challenges of Smart Cities,” *The 2012 HKUST International Workshop on Embedded Systems Design: From Mobile to Cloud*, May 18, 2012, Hong Kong.
- Invited Speaker, “大数据管理与处理平台的挑战,” 网络数据科学与工程: 一门新兴的交叉学科? 香山科学会议第 424 次学术讨论会, May 22-24, 2012, 北京香山饭店。
- Invited Speaker, “Internet of Healthcare Things,” The 2012 Workshop on Pacific-Rim Outlook Forum on IC Technology (PROFIT 2012), August 23-24, 2012, Urumqi, China.
- Invited Speaker, “智慧城市!智慧何在?” Forum on Opportunities and Challenges in Smart Cities, HKAES and South China University of Technology, Dec. 3, 2012, Guangzhou, China.

- Invited Speaker, “以表里融通，求道识虚远——大数据与云计算双向融合的挑战与机遇,” 云计算与软件服务工程创新发展高峰论坛, Chinese Academy of Engineering, Wuhan, China, March 28-29, 2013.
- Invited Speaker, “New Challenges of Smart Cities,” Arup’s Forum on Cities of the Future: Resilient and Intelligent, April 10, 2013, Hong Kong.
- Invited Speaker, “推進南沙新區綠色科技基地的開發建設,” 創新科技亞洲會議@珠三角 2013, InnoAsia13, December 6, 2013, Guangzhou, China.
- Invited Speaker, “大数据如何改变世界: 从斯诺登事件谈起,” Third Research Institute, Ministry of Public Security, April 14, 2014, Shanghai, China.
- Invited Speaker, “大数据如何改变世界: 从斯诺登事件谈起,” China UnionPay 中国银联, April 15, 2014, Shanghai, China
- Invited Speaker, “Using Critical Information: How Big Data Will Allow Cities to Deliver on Their Potential as Never Before,” Future Cities Asia, October 13, 2014.
- Invited Speaker, “大数据新阶段: 艺术兴起, 超级回归,” 计算机系统(硬件)技术发展”科学与技术前沿论坛, 中国科学院信息技术科学部, November 4-5, 2014, Changsha, China.

### **Others**

- US Engineering Foundation award, 1982.
- Distinguished Visitor, IEEE Computer Society, 1985 to 1988.
- IEEE Computer Society Fellow Evaluation Committee, 1996, 1997, and 2009.
- Distinguished Faculty Award, for contributions to excellent teaching, research, and service, Michigan State University, 1994.
- Distinguished Visitor, IEEE Computer Society Region 10 (Asia/Pacific), 2004 to 2006.
- Honorary Chair, 2007 *International Conference on Hybrid Learning*, August 13-15, 2008, Hong Kong
- Distinguished Lecturer: Ohio State University (1993), Florida Atlantic University (1994), University of Hong Kong (1996), University of Florida (1997), University of Cincinnati (2000), etc.
- Invited Seminar Speakers: presented over 300 invited seminars in both academia and industry
- 2009 Best Final Year Project award by Haochao Li and Yue Shi on “Acoustic Localization”, Department of Computer Science and Engineering, HKUST
- 2011 Best Final Year Project award by Bo Wang and Tianyi Xie on “Tourism Based Social Networking Service”, Department of Computer Science and Engineering, HKUST

### **Ph.D. Students Supervised (Michigan State University)**

- [1] Vernon Rego (June 1985), Modeling and Analysis of Token-Passing Computer Networks, now a full professor with the Department of Computer Science, Purdue University.
- [2] Chong-Wei Xu (May 1986), Dynamic Process Migration for Load Balancing in Distributed Systems, now a full professor with the Department of Computer Science, Georgia Southern University.

- [3] Thomas B. Gendreau, (May 1987), A Unified Environment for Distributed Computing, now an associate professor with the Department of Computer Science, University of Wisconsin, Lacrosse.
- [4] Ching-Farn E. Wu (August 1987), Application of Logical Circuit Representation to CMOS Circuit Design and Verification, now a senior MTS with IBM Watson Research Center.
- [5] Taieb Znati (May 1988), Design and Analysis of Local Area Network Protocols for Distributed Real-time Applications, now a full professor with the Department of Computer Science, University of Pittsburgh and US NSF Division Director.
- [6] Chung-Ta King (June 1988), Pipelined Data Parallel Algorithms: Concept, Design, and Modeling, now Associate Dean in College of EECS and full professor with the Department of Computer Science, National Tsing Hua University, Taiwan.
- [7] Bruce McMillin (June 1988), Reliable Parallel Processing: The Application Oriented Paradigm, now a full professor with the Department of Computer Science, Missouri University of Science and Technology.
- [8] Youran Lan (July 1988), Interprocessor Communication in Distributed-Memory Multiprocessors, was an associate professor with the Department of Computer Science, University of Missouri at Columbia (passed away in 2002).
- [9] Jiann Liao (June 1989), Verification of MOS Circuits at the Switch Level, now a senior engineer with Integrated Device Technology, San Jose, CA.
- [10] Xian-He Sun (May 1990), Parallel Computation Models: Representation, Analysis, and Applications, now Professor and Chair with the Department of Computer Science, Illinois Institute of Technology, Chicago, IL.
- [11] Carl B. Erickson (May 1991), Design and Evaluation of a Hierarchical Bus Multiprocessor, now professor with the Department of Information Technology, Uppsala University, Sweden.
- [12] Xiaola Lin (December 1991), Multicast Communication in Multicomputer Networks, now full professor with the School of Information Science and Technology, Sun Yat-Sen University, China.
- [13] Honda Shing (January 1992), A Conflict-Free Memory Design for Shared-Memory Multiprocessors, was co-founder and CTO of Intervideo Corp., San Jose, California, now PhD candidate in Physics at UC Berkeley.
- [14] Ten-Hwan Tzen (February 1992), Advanced Loop Optimization: Dependence Uniformization and Trapezoid Self-Scheduling, now manager of C++ compiler group at Microsoft Corporation, Washington.
- [15] Jayashree Ramanathan (July 1992), Data Placement in Shared-Virtual-Memory Multiprocessors with Non-Uniform Memory Access Times, now manager at IBM, Austin, Texas.
- [16] Christopher J. Glass (July 1992), Designing Maximally Adaptive Algorithms for Wormhole Routing: The Turn Model (received the **Outstanding Paper** honor at the 1992 International Symposium on Computer Architecture), now with Pharmacia & Upjohn Corp., Kalamazoo, Michigan.
- [17] Arun K. Nanda (September 1992), A Framework for Multiprocessor Performance Characterization and Calibration (received the **Outstanding Paper Award** at the 1992 International Conference on Parallel Processing), now manager at Microsoft Corp., Washington.
- [18] Hong Xu (October 1994), Compilation-Time Data Decomposition Optimization for Data Parallel Programs, now Director of Engineering at Cisco Systems Inc., San Jose, CA.

- [19] Stephen W. Turner (January 1995), Processor Scheduling in a Distributed-Memory Computing Environment (received the **Best Student Paper Award** at Supercomputing'94), now an associate professor with the Department of Computer Science, University of Michigan at Flint.
- [20] Edgar T. Kalns (May 1995), Scalable Data Redistribution Services for Distributed-Memory Machines, now Entrepreneurial Computer Scientist, SRI International, San Francisco.
- [21] Chi-Ming Chiang (May 1995), Multicasting in Multistage Interconnection Networks, now Director of Product Development, Delta Electronics, Inc., Taiwan.
- [22] Yew-Huey Liu (August 1996), A Framework for Distributed Web Services (received the **Outstanding Paper Award** at the 1996 International Conference on Parallel and Distributed Systems), now senior MTS at IBM Watson Research Center.
- [23] Wenjian Qiao (September 1997), Network Routing and Planning in Switch-based Networks, now MTS at IBM Research Triangle Park, Raleigh, North Carolina.
- [24] Natawut Nupaiorj (May 1998), Multicast Communication: From Platform-Independent Modeling to Platform-Dependent Tuning (received the **Outstanding Paper Award** at the 1996 International Conference on Parallel Processing), now an associate professor with the Department of Computer Science at Chulalongkorn University, Thailand.
- [25] Wei-Kuo Liao (December 1999), Bounded-Cell-Loss-Ratio Flow Control and Reliable ABR Multicast, now an assistant professor with the Department of Communication Engineering, National Chiao Tung University, Hsinchu, Taiwan.
- [26] Xipeng Xiao (April 2000), Providing QoS in the Internet (received the 1997 **ACM Best Graduate Research Contest Award**), now Director of Marketing, Huawei Europe, Germany
- [27] Fan Du (August 2001), Supporting Real-Time and Multimedia Applications in Wireless Networks, now MTS at Green Packet Network Inc., San Jose, CA.
- [28] Yong Chen (May 2002), CoStore: A Storage Cluster Architecture Using Network Attached Storage Devices, now MTS at Microsoft Corp., Redmond, Washington.
- [29] Vibhavas Vuppala (May 2002), Virtual Network Ports, now Vice President of Information Technology, QGS Inc., Michigan.
- [30] Pei Zheng (May 2003), A Cluster Architecture Supporting Network Emulation, now Head and Senior Manager of Samsung AT&T/T-Mobile R&D lab in Bellevue, Washington.
- [31] Yunhao Liu (July 2004, co-supervised with Prof. Li Xiao), Building Efficient and Secured Peer-to-Peer Systems, now Professor and Dean of Software College, Tsing Hua University, Beijing, China.
- [32] Abhishek P. Patil (July 2005, co-supervised with Prof. Abdol Esfahanian), Overlay Multicast in MANETs, now Senior Wireless Engineer, Corp. R&D Systems division, Qualcomm, San Diego, CA
- [33] Hongbo Zhou (July 2005, co-supervised with Prof. Matt Mutka), Autoconfiguration and Security for Wireless Networks, now an associate professor with the Department of Computer Science, Slippery Rock University, Slippery Rock, PA.
- [34] Feng Zhu (June 2006, co-supervised with Prof. Matt Mutka), Secure and Private Service Discovery in Pervasive Computing Environments, now an assistant professor with the Department of Computer Science, University of Alabama in Huntsville, Huntsville, AL.

## Ph.D. Students Supervised (HKUST)

- [35] Yanmin Zhu (July 2007), Low-Power Event Detection and Wakeup Scheduling in Wireless Sensor Networks, first Research Associate at Imperial College London, now Associate Professor in the Department of Computer Science and Engineering, Shanghai Jiaotong University, Shanghai, China
- [36] Jian Ma (July 2007), The Impact of Radio Signal Strength on the Design of Wireless Sensor Networks, now Vice President of Quantitative Research in Equity Derivatives Group, J.P. Morgan, Hong Kong
- [37] Yunhuai Liu (August 2008), Probabilistic Topology Control in Wireless Sensor Networks (received the 2008 IEEE ICDCS **Outstanding Paper Award**), now Deputy Director and Associate Researcher of IoT Lab, The Third Research Institute of Ministry of Public Security, Shanghai
- [38] Quanbin Chen (August 2008), General Clustering Framework in Wireless Sensor Networks, now Manager, HSBC, Hong Kong
- [39] Yiyang Zhao (April 2010), Localization and Tracking Based on RFID Technologies, now Postdoc Researcher, Tsinghua University, Beijing
- [40] Dian Zhang (May 2010), Localizing Transceiver-free Objects: The RF-Based Approaches, now Assistant Professor at Shenzhen University, Shenzhen, China
- [41] Yanyan Yang (June 2010), Channel Assignment and Its Applications in Wireless Networks, now Financial Analyst, Deutsche Bank AG, London, UK
- [42] Kaishun Wu (June 2011), Communication over Interference in Wireless Networks (received the **2012 Hong Kong Young Scientist Award**), now Research Assistant Professor at the Hong Kong University of Science and Technology.
- [43] Siyuan Liu (August 2011), Incomplete Data Analysis in Smart City Applications, now Research Scientist at Carnegie Mellon University.
- [44] Hoi-Lun Ngan (September 2012), Resource Optimization in Wireless Communication Systems: From Worthless to Valuable, now Equity Derivatives Developer at Royal Bank of Scotland Group, Hong Kong.
- [45] Wuman Luo (December 2012), Efficient Algorithms for Frequent Path Finding and Similarity Join in Massive Multi-dimensional Datasets, now Research Assistant Professor at the Hong Kong University of Science and Technology
- [46] Haoyu Tan (December 2012), An Efficient Storage System for Big Trajectory Data, now Research Assistant Professor at the Hong Kong University of Science and Technology
- [47] Xiaonan Guo (August 2013), From Localization to Floor Plan Identification, now Research Associate at Singapore Management University
- [48] Jiansu Pu (August 2013, co-supervised with Prof. Huamin Qu), Visual Summarization and Analysis of Spatio-Temporal Data, now Research Associate at the Hong Kong University of Science and Technology
- [49] Min Gao (April 2014, co-supervised with Prof. Qian Zhang), Monitoring and Application of Wireless Sensor Networks, now Executive Director of Division of Internet of Things, Guangzhou HKUST Fok Ying Tung Research Institute
- [50] Haochao Li (May 2014), Towards Efficient Communication in WLANs Based on Cross-Layer Design, now Research Associate at the Hong Kong University of Science and Technology
- [51] Jiang Xiao (May 2014), Enhancing WLAN-based Indoor Localization with Channel State Information, now Research Associate at the Hong Kong University of Science and Technology

- [52] Ye Ding (June 2014), AVATAR: A System for the Analysis of Vast Amount of Trajectories and Roads, now Research Associate at the Hong Kong University of Science and Technology

### **Ph.D. Students Co-Supervised at Other Universities**

- [53] Hongzi Zhu (January 2009), On New-Generation Intelligent Transportation Information Services Using Vehicular Sensor Networks, Shanghai Jiao Tong University, now Assistant Professor at Shanghai Jiao Tong University, Shanghai, China
- [54] Huajian Mao (May 2013), Research on Key Technologies of Mobile Storage and Spatial Temporal Data Analysis in Cloud Environment, National University of Defense Technology, now Research Associate, Academy of Military Medical Sciences, Beijing, China

### **Grants in Hong Kong**

- [1] EMPOWER: An IP-based Network Emulation Environment (PI), Hong Kong Research Grant Council (HKUST6161/03E), HKD\$377,149, October 2003 to September 2005.
- [2] Pervasive computing (PI), Hong Kong High Impact Area grant (HIA03/04.EG04), HKD\$400,000, October 2003 to October 2005.
- [3] Location-aware computing for mobile commerce (PI), Hong Kong Direct Allocation Grant (DAG02/03.EG02), HKD\$100,000, June 2003 to June 2004.
- [4] Building Scalable and Secure Peer-to-Peer Systems (PI), Hong Kong Research Grant Council (HKUST6264/04E), HKD\$653,244, October 2004 to September 2006.
- [5] Action-Oriented Pervasive Query Processing (co-I), Hong Kong Research Grant Council (HKUST6263/04E), HKD\$339,414, October 2004 to September 2006.
- [6] WinyDB: An Embedded Query Processor for Sensor Networks (co-I), Microsoft Research Asia, USD\$20,000, September 2004 to open.
- [7] Next Generation Online Multimedia Collaboration System (PI), Hong Kong Innovation and Technology Fund (UIM/103), HKD\$7,211,242 from ITF and HKD\$7,211,242 from WebEx, December 2004 to November 2006.
- [8] The Establishment of the CAS/HKUST Joint Center for Information Technology Research (PI), HKUST (CMI03/04.EG02), HKD\$230,000, Feb. 2004 to Jan 2007.
- [9] Operating system courseware using Microsoft Windows XP (PI), Microsoft Research Asia (MRA04/05.EG01), USD\$25,000, December 2004 to November 2006.
- [10] Large-scale, experimental sensor network systems (PI), HKUST Research Equipment Fund, HKD\$500,000, January 2005 to June 2006.
- [11] RF-based Localization for Wireless Sensor Networks (PI), Hong Kong Research Grant Council (HKUST6183/05E), HKD\$424,144, October 2005 to September 2007.
- [12] AnyServer: Digital Network Platform Technology and Equipment for Ubiquitous Communications (Co-I, PI is Prof. Weijia Jia of City University of Hong Kong), Hong Kong Innovation and Technology Fund (GHP/052/05), HKD\$7,500,000, March 2006 to February 2008.
- [13] Self-organized Node Identification in Wireless Sensor Networks (PI), Hong Kong Research Grant Council (HKUST6183/06E), HKD\$396,000, October 2006 to September 2008.
- [14] Joint Congestion Control MAC Scheduling and Power Control in Wireless Mesh Networks (Co-I, PI is Prof. Brahim Bensaou), Hong Kong Research Grant Council (HKUST6105/06E), HKD\$356,000, September 2006 to August 2008.



- [15] A Research Center for Ubiquitous Computing (Co-I, PI is Prof. Joseph Ng of Hong Kong Baptist University), Hong Kong RGC Central Allocation Grant (HKBU 1/05C), HKD\$3,600,000 (UST share is HKD\$800,000), June 1, 2006 to May 31, 2009.
- [16] Digital Life Research Center (PI), HKUST Nansha Research Fund (NRC06/07.EG01), HKD\$8,384,000, July 1, 2006 to June 30, 2008.
- [17] On-Chip Network Design and Scheduling Parallel Programs (PI), Intel Corporation, USD\$30,000, April 2007 to open.
- [18] The Sixth Annual IEEE International Conference on Pervasive Computing and Communications (PI), The Croucher Foundation (CF07/08.EG05), HKD\$100,000, May 2007 to April 2008.
- [19] The Sixth Annual IEEE International Conference on Pervasive Computing and Communications (PI), The K.C. Wong Education Foundation (KCWEF06/07.EG05), HKD\$36,000, June 2007 to May 2008.
- [20] RFID Benchmarking: Methodology and Practice (Co-I, PI is Prof. S.C. Cheung), Hong Kong Innovation and Technology Fund (ITP/022/07LP), HKD\$1,988,465, July 1, 2007 to Dec 31, 2008.
- [21] SmartMesh: An Intelligent Wireless Mesh Network for a Wi-Fi City (Co-I, PI is Prof. Gary Chan), Hong Kong Innovation and Technology Fund (ITS/080/07), HKD\$945,300, September 1, 2007 to August 31, 2008.
- [22] Critical Technologies for Seamless Smart Digital Homes (Co-I, PI is Prof. Q. Zhang), Hong Kong Innovation and Technology Fund (ITF GHP/042/06), HKD\$2,705,800, April 1, 2007 to March 31, 2009.
- [23] Research on Wireless Sensor Networks (PI), Shanghai Jiaotong University (N973-06/07.EG01), HKD\$929,848, September 1, 2007 to August 31, 2011.
- [24] Matching Support for the National 973 Project on Fundamental Theory and Critical Technologies for Wireless Sensor Networks (PI), HKUST President's Targets of Opportunity (N973-06/07.EG01-1), HKD\$1,000,000, September 1, 2007 to August 31, 2011.
- [25] Trustworthy Computing for Large-scale Peer-to-peer Systems (PI), National Natural Science Foundation of China/Hong Kong Research Grants Council Joint Research Scheme, Hong Kong Research Grant Council (N\_HKUST614/07), HKD\$799,000, December 1, 2007 to November 30, 2010.
- [26] Probabilistic Topology Control in Wireless Sensor Networks (PI), Hong Kong Research Grant Council (HKUST617908), HKD\$321,033, October 2008 to September 2010.
- [27] RF-based Technologies for Asset/Personnel Tracking (Co-I, PI is Prof. Q. Zhang), Hong Kong Innovation and Technology Fund (ITP/023/08LP), HKD\$6,490,650, September 15, 2008 to September 14, 2010.
- [28] On-Chip Network Design and Scheduling Parallel Programs (PI), Intel Corporation, USD\$58,000, October 2008 to open.
- [29] Digital Life Research Center (PI), HKUST Nansha Research Fund (Phase 2) (NRC06/07.EG01-II), HKD\$10,033,000, July 1, 2008 to June 30, 2010.
- [30] CardioSentinal: A 24-hour heart care and monitoring system (PI), Hong Kong Innovation and Technology Fund (ITS/125/09), HKD\$999,120, November 1, 2009 to October 31, 2010.
- [31] 可重构路由交换通用平台研制 A Platform for Reconfigurable Router Design (PI), National Hi-Tech R&D Program of China (863 Program) under Grant No. 2008AA01A324, subcontract from Huawei Co., (HKUST 2008AA01A324-3), HKD\$ 870,276, August 2009 to September 2010.

- [32] Performance Enhancement Using Chip Error Information in Wireless Networks (PI), Hong Kong Research Grant Council (HKUST617710), HKD\$1,383,450, October 2010 to September 2013.
- [33] An integrated system for smart green buildings (PI), HKUST Special Research Fund Initiative (SRFFYT01), HKD\$4,000,000 (\$2M from SRF fund and \$2M from FYT Fund), June 16, 2011 to June 15, 2013.
- [34] Harnessing Jamming for Wireless Communication (PI), Hong Kong Research Grant Council (HKUST617811), HKD\$1,326,870, October 2011 to September 2014.
- [35] Exploiting channel characteristics to enrich the wireless network applications (PI), Hong Kong Research Grant Council (HKUST617212), HKD\$500,000, January 2013 to December 2015.
- [36] Energy Management in Smart Green Buildings (PI), Microsoft Research Asia (MRA12EG02), HKD\$778,275, May 1, 2012 to April 30, 2013.
- [37] Towards Effective Knowledge Discovery From Traffic Data and Mobile Phone Data 针对大规模交通数据与移动通信数据的高效数据挖掘与应用, Huawei Corp. (YBCB2009041-27), HKD\$1,094,000, September 2012 to September 2013.
- [38] 针对多维海量时空数据的高效查询及挖掘关键技术研究, HKUST Fok Ying Tung Graduate School (Project Code: 13140600), RMB\$500,000, October 2013 to September 2014.
- [39] Exploring Cloud Computing for Remote Healthcare Monitoring (PI), New Element Medical Equipment Technology Development Co. (NEME01-53N00610/11PN), HKD\$5,000,000, 新元素-香港科大数字健康、医疗物联网联合研究中心 (New Element-HKUST Digital Healthcare Research Center), November 2010 to December 2015.
- [40] Monitoring Human Behavior by Using Wireless Networks (PI), Hong Kong Research Grant Council (HKUST16207714), HKD\$875,000, September 2014 to August 2017.

## Grants in the Mainland China

- [1] Middleware and Data Management for Sensor Networks (Co-I, PI is Prof. Jianzhong Li of Harbin Institute of Technology), National Natural Science Foundation of China (60533110), RMB\$2,000,000, January 2006 to December 2009.
- [2] Research on Fundamental Theory and Critical Technologies for Wireless Sensor Networks (PI and Chief Scientist), National Basic Research Program of China (973 Program), Ministry of Science and Technology (No. 2006CB303000), RMB\$28,000,000, September 1, 2006 to August 31, 2011.
- [3] 数字家庭关键技术研究(Critical Technologies and Applications of Digital Life), 广州市粤港科技攻关 (The Key Project of Guangzhou Municipal Government Guangdong/Hong Kong Critical Technology grant), RMB \$278,000, October 2006 to September 2008.
- [4] 远程心电监护系统 (Remote Heart Monitoring System), 深圳新元素公司技术委托开发, Contract from Shenzhen New Element Company, RMB \$200,000, March 2007 to December 2008.
- [5] 传感器测试平台 (Test Platform for Sensor Networks), 南沙区科技项目(Nansha S&T Bureau), RMB \$200,000, January 2010 to December 2011.
- [6] 无线射频识别基准检验的关键技术之方法及应用 (RFID Testing Technologies), 技术委托开发 (Industry Contract), RMB \$682,880, September 2008 to September 2010.
- [7] 基于射频技术的人员/财产跟踪系统 (RF-based Tracking System), 技术委托开发 (Industry Contract), RMB \$480,486, October 2008 to October 2010.

- [8] 传感器网络实验原型系统 (Wireless Sensor Network Prototype System), 技术委托开发 (Industry Contract), RMB \$237,000, October 2010 to January 2011.
- [9] 中高速传感器网络 (Medium to High Speed Sensor Networks), 广东省重大项目 (Key Project of Guangdong Province), RMB \$150,000, April 2009 to December 2011.
- [10] 数字生活行业工程中心(Guangzhou Digital Life Industry R&D Center) (PI), 广州市科技局工程中心建设(Guangzhou Science and Technology Bureau), (穗科条[2009]7-10), RMB\$2,000,000, July 2009 to December 2011.
- [11] 广东省香港科大粤港产学研科技创新平台 (Guangdong/Hong Kong Technology Innovation Platform) (PI), 广东省科技厅产学研创新平台建设 (S&T Department of Guangdong Province), (2010B091000004), RMB\$800,000, January 2011 to December 2013.
- [12] 传感器网络辅助平台建设 (Assisted Platform Design for Wireless Sensor Networks) (PI), 国家自然科学基金-科学仪器专项 (National Natural Science Foundation of China), RMB\$1,800,000, January 2011 to December 2013.
- [13] 广州市穗港数字生活服务外包公共技术服务平台 (Co-PI), 广州市服务外包平台项目, RMB \$600,000.00, 2011 年 9 月-2012 年 9 月.
- [14] 基于云存储的海量时空数据处理关键技术和实现(Co-PI), 科技部港澳台科技合作专项 (2012DFH10010), RMB \$5,120,000.00, 2012 年 1 月-2014 年 12 月.
- [15] 网络信息空间大数据计算理论 (PI of 子课题 3), National Basic Research Program of China (973 Program), Ministry of Science and Technology (No. 2014CB340303), RMB\$7,040,000, January 2014 to December 2018.

## Patents

- [1] S.C. Cheung and L. M. Ni, "Methods and System for Determining the Placement of RFID Antennas to Obtain a Readable Region for RFID Tags," US 7,999,676 B2, US Patent granted August 16, 2011.
- [2] Feng Zhu, Matt Mutka and Lionel M. Ni, "Private Entity Authentication for Pervasive Computing Environments," US 12/075,618 (US Patent Pending), March 2008.
- [3] Kaishun Wu, Qian Zhang and Lionel M. Ni, "Transmitting and/or Receiving Data in a Side Channel", January 10, 2013, US Patent Publication No. US 2013/0010725 A1.
- [4] 张成志, 倪明选; "针对 RFID 标签的可读区域决定 RFID 天线放置的方法与系统" 专利号: 200810129210.5; 授权公告日: 2013 年 6 月 19 日.
- [5] 倪明选, 何天华; "通用接口解毒装置," 专利号: ZL 2006 2 0157103.X; 授权公告日: 2007 年 11 月 7 日.
- [6] 倪明选, 何天华; "USB 防盗警示装置," 专利号: ZL 2006 2 0147819.1; 授权公告日: 2008 年 2 月 6 日.
- [7] 倪明选, 何天华; "可编程信息显示风扇," 专利号: ZL 2006 2 0135596.7; 授权公告日: 2008 年 1 月 23 日.
- [8] 倪明选, 何天华; "互动式电子学习白板及其运作方法", 专利号 : ZL 2006 1017 1192.8; 专利申请日 2006.12.21; 授权公告日 2010.01.27.

- [9] 胡磊,鲁力,韩劲松,刘云浩,倪明选;“射频识别系统隐私认证方法”,专利号: ZL 2007 1 0003363.0; 专利申请日 2007.02.06; 授权公告日 2010.05.19.
- [10] 倪明选,钱辰;“无线射频识别系统中高效的标签计数方法”,专利号: ZL 2008 1 0029206.1; 专利申请日 2008.07.04; 授权公告日 2011.11.30.
- [11] 肖江, 伍楷舜, 倪明选: “基于无线网络信道状态信息的室内定位方法”, 专利号: ZL 2011 1 0350390.1; 专利申请日 2011.11.09; 授权公告日 2014.06.18.
- [12] 张滇,杨艳艳,倪明选;“基于多信道和支持向量回归的多个无设备物体追踪方法”,发明专利申请号: CN200910192132.8; 专利申请日 2009.09.07 (China Patent Pending)
- [13] 张滇,马坚,陈全斌,倪明选;“无线网基于最优覆盖算法的单个无设备物体追踪方法”,发明专利申请号: CN200910192133.2; 专利申请日 2009.09.07 (China Patent Pending)
- [14] 张滇,倪明选;“无线网基于动态分簇算法的多个无设备物体追踪方法”,发明专利申请号: CN200910192134.7; 专利申请日 2009.09.07 (China Patent Pending)
- [15] 伍楷舜,张黔,倪明选;“一种利用无线信道干扰进行数据传输的方法”,发明专利申请号: CN201010283105.4; 专利申请日 2010.09.15 (China Patent Pending)
- [16] 沈钟,黄才炎,高民,倪明选,刘云淮;“面向大规模无线传感器网络测试与调试的分布式部署方法”,发明专利申请号: CN201010586624.8; 专利申请日 2010.12.14 (China Patent Pending)
- [17] 黄才炎,沈钟,高民,倪明选,刘云淮;“一种面向大规模无线传感器网络的分布式交互方法”,发明专利申请号: CN201010587205.6; 专利申请日 2010.12.14 (China Patent Pending)
- [18] 沈钟,才炎,陈振宇,高民,倪明选,刘云淮;“面向大规模无线传感网络的节点程序远程批量更新方法”,发明专利申请号: CN201010587288.9; 专利申请日 2010.12.14 (China Patent Pending)
- [19] 康磊,伍楷舜,倪明选;“基于阅读器的无线射频识别中的载波监听多路访问协议”,发明专利申请号: CN201110250862.6; 专利申请日 2011.08.29 (China Patent Pending)
- [20] 王璐,伍楷舜,韩隶,倪明选;“一种基于物理层干扰信息的多信道分配优化方法”,发明专利申请号: CN201110292024.5; 专利申请日 2011.09.29 (China Patent Pending)
- [21] 王璐, 伍楷舜, 韩隶, 倪明选: “一种基于物理层干扰信息的暴露终端优化方法”, 发明专利申请号: 201210064974.7; 专利申请日 2012.01.13 (China Patent Pending)
- [22] 王璐, 伍楷舜, 倪明选: “一种基于物理层干扰信息的隐藏终端优化方法”, 发明专利申请号: 201210026300.8; 专利申请日 2012.02.07 (China Patent Pending);
- [23] 张滇, 刘云淮, 郭小楠, 高民, 倪明选: “一种在无线信号强度测距技术中区分无线传输多径的方法”, 发明专利申请号: 201210079760.7; 专利申请日 2012.03.23 (China Patent Pending)
- [24] 朱浩慎, 黄才炎, 李洋, 赵云, 高民, 倪明选, “一种适用于无线传感器网络的动态自组织分层次路由方法”, 发明专利申请号: 201210178328.3, 专利申请日: 2012/6/1 (China Patent Pending);
- [25] 李洋, 黄才炎, 刘浩威, 赵云, 高民, 倪明选, “基于动态分簇路由算法的无线传感器网络数据采集方法”, 发明专利申请号: 201210179087.4, 专利申请日: 2012/6/4 (China Patent Pending);

- [26] 高民, 潘晓瑞, 黄才炎, 张滇, 倪明选, “一种适用于无线传感器网络的节点能量消耗实时监测方法”, 发明专利申请号: 201210181216.3, 专利申请日: 2012/6/5 (China Patent Pending);
- [27] 郭小楠, 张滇, 倪明选, “基于信号强度的动态环境中多物体定位方法”, 发明专利申请号: 201210198175.9, 专利申请日: 2012/6/15 (China Patent Pending);
- [28] 王璐, 陈瑞良, 伍楷舜, 倪明选, “一种基于频域的认知无线电协同感知与频谱竞争的方法”, 发明专利申请号: 201210497788.2, 专利申请日: 2012/11/29 (China Patent Pending);
- [29] 蒲剑苏, 屈华民, 倪明选, “用于车辆 GPS 数据分析与异常监测的可视挖掘方法”, 发明专利申请号: 201210536118.7, 专利申请日: 2012/12/13 (China Patent Pending);
- [30] 李浩潮, 伍楷舜, 张黔, 倪明选, “一种在多用户多输入多输出无线网络中的多路访问机制”, 发明专利申请号: 201310072876.2, 专利申请日: 2013/3/7 (China Patent Pending);
- [31] 蒲剑苏, 屈华民, 倪明选, “一种针对大规模交通数据的高效可视监测分析系统”, 发明专利申请号: 201310215754.4, 专利申请日: 2013/6/3 (China Patent Pending);
- [32] 罗吴蔓、谭浩宇、陈雷、倪明选, “基于时段的热点路径的特征识别与快速搜索方法”, 发明专利申请号: 201310248692.7, 专利申请日: 2013/6/21 (China Patent Pending);
- [33] 伍楷舜、王羽西、倪明选, “一种人体摔倒自动检测方法及系统”, 发明专利申请号: 201310456860.1, 专利申请日: 2013/9/30 (China Patent Pending) .

## Publications

According to scholar.google.com (<http://scholar.google.com/citations?hl=en&user=OzMYwDIAAAAJ>), my papers have over 20,000 citations with H-index 62.

## Books

- [1] *Interconnection Networks: An Engineering Approach*; Jose Duato, Sudhakar Yalamanchili, Lionel Ni; IEEE Computer Society Press, 1997.
- [2] *Interconnection Networks: An Engineering Approach (second edition)*; Jose Duato, Sudhakar Yalamanchili, Lionel Ni; Morgan Kaufmann Publishers, 2002.
- [3] *Smart Phone and Next Generation Mobile Computing*; Pei Zheng and Lionel Ni, Morgan Kaufmann Publishers, January 2006.
- [4] *Professional Smartphone Programming*; Baijian Yang, Pei Zheng and Lionel Ni, Wrox Publishing, Inc., January 2007.

## Book Chapters

- [1] K. Hwang, Shun-Piao Su, and L. M. Ni, “Vector computer architecture and processing techniques,” in *Advances in Computers* (M. Yovits, ed.), vol. 20, pp. 115-197, Academic Press, 1981.
- [2] L. M. Ni and K. Wong, “A multiple microprocessor system for office image processing,” in *Picture Engineering* (K. S. Fu and T. L. Kunii, eds.), pp. 232-246, Springer-Verlag, 1982.
- [3] L. M. Ni and A. K. Jain, “Design of a pattern cluster using two-level pipelined systolic array,” in *VLSI for Pattern Recognition and Image Processing* (K. S. Fu, ed.), pp. 65-83, Springer-Verlag, 1982.

- [4] L. M. Ni, "A dynamic job migrating strategy for homogeneous local computer networks," in *Intel-  
ligent Systems, Imaging Technology and Software Engineering* (P. S. Wang, ed.), pp. 235-247,  
Northeastern University, 1984.
- [5] L. M. Ni, "Implementing priority functions in local area networks," in *Computer-based Automation*  
(J. T. Tou, ed.), pp. 569-589, Plenum Pub. Co., 1984.
- [6] L. M. Ni and K. Hwang, "Optimal load balancing strategies for a multiple processor system," in  
*Advanced Computer Architecture* (D. P. Agrawal, ed.), IEEE Computer Society, 1986.
- [7] L. M. Ni, S.-N. Chow, and Y.-Q. Shen, "A parallel homotopy method for solving a system of poly-  
nomials," in *Parallel Processing for Scientific Computing* (G. Rodrigue, ed.), ch. 22, SIAM, 1988.
- [8] B. McMillin and L. M. Ni, "A reliable parallel algorithm for relaxation labeling," in *Parallel Pro-  
cessing for Vision and Display* (P. M. Dew, R. A. Earnshaw, and T. R. Heywood, eds.), pp. 190-  
209, Addison-Wesley, 1989.
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- [223] Jiangchuan Zheng and Lionel M. Ni, “Modeling Heterogeneous Routing Decisions in Trajectories for Driving Experience Learning,” in *Proc. of the 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2014)*, Seattle, Washington, 13-17 September 2014.
- [224] Wenchao Wu, Yixian Zheng, Huamin Qu, Wei Chen, Eduard Gröller and Lionel M. Ni, “BoundarySeer: Visual Analysis of 2D Boundary Changes,” in *Proc. of the 2014 IEEE International Conference on Visual Analytics Science and Technology (VAST 2014)*, Paris, France, November 9-14, 2014.

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- [226] Keyu Wang, Zheng Yang, Zimu Zhou, Yunhao Liu and Lionel M. Ni, "Ambient Rendezvous: Energy-Efficient Neighbor Discovery via Acoustic Sensing," in Proceedings of IEEE INFOCOM 2015, Hong Kong, April 26 – May 1, 2015.

### Articles in Chinese

- [1] 倪明选, "移动 Ad-hoc 网络与无线传感器网络," 中国计算机学会通讯, 第 2 卷 第 2 期, 46-47, 2006 年 3 月.
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- [3] 倪明选, "数字化城市与应急管理," 中国计算机学会通讯, 第 5 卷 第 1 期, 22-24, 2009 年 1 月.
- [4] 倪明选, "一个海外学者对中国计算机科研的回顾与展望," 中国计算机学会通讯, 第 6 卷 第 1 期, 34-36, 2010 年 1 月.
- [5] 倪明选, 张黔, 谭浩宇, 罗吴蔓, 汤小溪, "智慧医疗—从物联网到云计算," 中国科学: 信息科学 (SCIENCE CHINA Information Sciences), 第 43 卷第 4 期:515-528, 2013 年 4 月.

### Invited Papers

- [1] Y.-H. Liu and L. M. Ni, "Design of distributed programming tools on network systems," *IEEE Distributed Processing Newsletter*, vol. 10, pp. 20-27, Mar. 1988.
- [2] L. M. Ni, "Research issues in multicast communication," in *Proc. of the First Annual OSU Workshop on Parallel Computing*, pp. 104-111, Mar. 1990.
- [3] L. M. Ni, "Communication issues in multicomputers," in Proceedings of the First Workshop on Parallel Processing, (Hsinchu, Taiwan), pp. 52-64, Dec. 1990.
- [4] L. M. Ni, "A layered classification of parallel computer systems," in *Proceedings of the 1991 International Conference for Young Computer Scientists*, (Beijing, China), July 1991.
- [5] L. M. Ni, "Should Scalable Parallel Computers Support Efficient Hardware Multicast?" *Proc. of the 1995 ICPP Workshop on Challenges for Parallel Processing*, pp. 2-7, August 14, 1995.
- [6] L. M. Ni, "Issues in Designing Truly Scalable Interconnection Networks," *Proc. of the 1996 ICPP Workshop on Challenges for Parallel Processing*, pp. 74-83, August, 1996.
- [7] L. M. Ni, W. Qiao and M. Yang, "Switches and Switch Interconnects," *Proc. of the 4th International Conference on Massively Parallel Processing Using Optical Interconnections*, Montreal, Canada, June 1997.

### Hong Kong Committee Services

- HKUST Senate; July 2002 to June 2008; July 2010 - present

- University Administrative Committee, HKUST, July 2010 - present
- EEE Department Head Search Committee; September 2002 to March 2003.
- School of Engineering Chair Professor Nomination Committee, September 2005 to August 2007.
- Information Technology Projects Vetting Committee, HK Innovational and Technology Fund; January 2003 to December 2004.
- Engineering Panel, Research Grant Council, HK University Grants Committee; December 2002 to June 2008.
- Joint Selection Committee, NSFC/RGC Joint Research Scheme, Engineering Panel, University Grants Committee, Hong Kong SAR; 2003/4, 2004/5, 2005/6, and 2008/9.
- Member, Advisory Board, Sino Software Research Institute, 1/2005 to 8/2011
- Panel Member, the Computer Science/Information Technology Panel, Research Assessment Exercise (RAE) 2006, HK University Grants Committee, 2005/6.
- Member of the University Appointments and Substantiation Committee, HKUST, Nov 2005 to October 2006.
- Member of Advisory Committee, the Study on the IT Professional Qualification Certification System and IT Manpower Roster for Hong Kong (ITCRS), Hong Kong Computer Society, February 2006 to present.
- Member of the Expert Review Panel, Technology Committee, Hong Kong R&D Center for Logistics and Supply Chain Management Enabling Technologies (LSCM), December 1, 2006 to November 30, 2011.
- Chair of the Steering Committee, Hong Kong R&D Center for Logistics and Supply Chain Management Enabling Technologies (LSCM), December 1, 2007 to November 30, 2011.
- Appointed Member of Accreditation Committee for Computer Science Programme, The Hong Kong Institution of Engineers, 2006-2010.
- HKUST Fok Ying Tung Graduate School Dean Search Committee; 2007.
- Academic Working Group, Institute of Advanced Studies, HKUST; 2006 to December 2014.
- Chair of IELM Department Head Search Committee; August 2007 to June 2008.
- Chairman of FYTGS Ad-hoc Academic Appointment Committee, HKUST Fok Ying Tung Graduate School, November 1, 2007 to October 31, 2009.
- Council Member (elected), Hong Kong Computer Society, 2009 to 2011.
- 学术委员会委员, 香江学者计划, 香港学者协会 Member of Academic Committee, Hong Kong Scholar Program, The Society of Hong Kong Scholars, December 2010 to present.
- Member, The Council of The HKUST, 2011 to 2102.
- Member, Deans and DIPO's Meeting, 2011 to present.
- Board Member, Guangzhou HKUST Fok Ying Tung Research Institute, HKUST, 2011 to present
- Member, UAC Sub-Committee on Continuing and Professional Education (SCCPE), HKUST, 2011 to present
- Member, Steering Committee for Mainland Projects (SCMP), HKUST, 2011 to 2013

- Member, the FYTGS Strategic Committee, 2011 to present
- Chair, the Research and Academic Programs Sub-Committee of the FYTGS Strategic Committee, 2011 to present
- Member of Dean Search Committee, XJTU/HKUST Joint School of Sustainable Development, October 2013 to March 2014.
- Member of Mainland R&D Committee, 1 June 2014 to 31 May 2016.

### **Mainland China Committee Services**

- Expert Panel, Outstanding Young Scientist Award (国家基金委杰出青年奖), Natural Science Foundation of China (NSFC), 2005 and 2009.
- Expert Panel, Department of Information Sciences, Natural Science Foundation of China (NSFC), 2005 and 2006.
- Expert Panel, Changjiang Scholars Program (教育部长江学者), Ministry of Education, China, 2007, 2008, 2012.
- Director Search Committee, The Ministry of Education Key Laboratory of Software Engineering, Wuhan University, Wuhan, China, April 2005.
- Member of Academic Committee 学术委员会, State Key Laboratory for Virtual Reality Technologies and Systems 虚拟现实技术与系统国家重点实验室, Beihang University, Beijing, China, November 2007 to November 2012.
- Board of Directors, China Computer Federation, Beijing, China, April 2008 to April 2012.
- Panel of Outstanding Experts, 上海交通大学大电类中长期综合评估, June 25-28, 2009, Shanghai Jiao Tong University.
- Expert Panel on Shenzhen Intelligent Transportation System 深圳市智能交通系统建设技术方案专家组成员, Development and Reform Commission, Shenzhen Municipal Government 深圳市发展和改革委员会, Oct. 2009 to Sep. 2011.
- Member of Technology Committee 技术委员会, State Engineering Technology Research Center on Digital Home 国家数字家庭工程技术研究中心, Sun Yat-Sen University, Guangzhou, China, January 2011 to December 2013.
- 无锡市南长区人民政府 RFID 产业发展顾问, Jan. 2010 to Jan. 2012
- 政协特约委员, 南沙区人民政府, 广州市, 2011 to present.
- Member of Academic Committee 学术委员会, State Key Laboratory for High Performance Computing 高性能计算国家重点实验室, National University of Defense Technology, Changsha, China, December 2012 to November 2015.
- Academic Advisory Committee, School of Computer Science and Technology, Shandong University, June 1, 2014 to May 31, 2016.
- Member of Academic Committee 学术委员会, 深圳市海外高层次人才团队暨“图像与视频处理研究”孔雀团队, Shenzhen, China, July 13, 2014 to July 12, 2019.

## **MSU Committee Services**

- Graduate Studies and Research Committee, Department of Computer Science, MSU, 1982-1988, 1989-1991 (Chair), 1997-1998.
- Graduate Studies and Research Council (elected), College of Engineering, MSU, 1989-1991.
- College Graduate Research Council (elected), MSU, 1994-1995.
- Advisory Committee (elected), Department of Computer Science, MSU, 1985-1990, 1991-1995, 1996-1998, 2000-2002.
- Colloquium Committee, Department of Computer Science, MSU, 1984-1985 (Chair).
- Undergraduate Curriculum Committee, Department of Computer Science, MSU, 1991-1992, 1996-1997 (Chair).
- Graduate Admissions Committee, Department of Computer Science, MSU, 1982-1985.
- Case Center Advisory Committee, College of Engineering, MSU, 1985-1987.
- External Network Connections Committee, MSU, 1985-1986.
- Faculty Search and Selection Committee, Department of Computer Science, MSU, 1985-1987, 1988-1990, 1991-1992 (chair), 1993-1994 (chair), 1996-1997 (chair), 1997-1999, 1999-2000 (chair), 2000-2001, 2001-2002 (chair).
- Chairperson Search Committee (elected), Department of Computer Science, MSU, 1994-95 (chair), 2000-2001 (chair).
- Promotion and Tenure Committee, Department of Computer Science, MSU, 1985-present.
- Computing Environment Committee, Department of Computer Science, MSU, 1986-87 (Chair), 1988-1991, 1991-1992 (Chair), 1992-1995, 1998-2000 (Chair), 2001-2002.
- Computer Engineering Liaison Committee, College of Engineering, MSU, 1986-1990.
- College Computer Engineering Program ad hoc Committee, MSU, 1994-1995 (chair).
- EECAE Advisory Committee, College of Engineering, MSU, 1985-1987.
- AURIG Review Committee (science track), MSU, 1990-1991.
- Computer Center Operation and Finance Committee, MSU, 1992-present.
- College Research Promotion and Tenure Committee, College of Engineering, MSU, 1991, 1994, 1995, 1999, 2001, 2002 (chair).
- University MAGB Review Committee, MSU, 1994.
- University Hearing Board, MSU, 1994-1996.
- University High-Performance Computing Advisory Committee, MSU, 1993-1994.
- College Curriculum Committee, MSU, 1996-1997.

## **Local Community Services**

- President, MSU Chinese-American Faculty Association, 1992-1994.
- Faculty Advisor, MSU Chinese Student Association, 1993-1994
- Board of Directors, Lansing Chinese School, 1994-1997, Chairman (1995).