

Curriculum Vitae

Yi Pan

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PERSONAL DATA

Date of Birth: 05/12/1960
Sex: Male
Citizenship: USA

RESEARCH INTERESTS

Bioinformatics and Health Informatics Using Big Data Analytics, Cloud Computing, and Machine Learning Technologies.

EDUCATION

- Certificate of Accelerated Leadership Academy (ALA), University System of Georgia, 2014.
- Certificate of Executive Leadership Institute (ELI), University System of Georgia, 2012.
- Ph.D. in Computer Science, University of Pittsburgh, August 1991.
- M.S. in Computer Science, University of Pittsburgh, 1988.
- M.E. in Computer Engineering, Tsinghua University, 1984.
- B.E. in Computer Engineering, Tsinghua University, 1982.

PROFESSIONAL EMPLOYMENT

- 2017-present, Georgia State University, USA, Chair, Department of Computer Science
- 2015-Present, Georgia State University, USA, Regents' Professor
- 2013-2017, Georgia State University, USA, Associate Dean of Arts and Sciences

April 14, 2020

- 2013-2017, Georgia State University, USA, Interim Biology Department Chair
- 2013-2015, Georgia State University, USA, Distinguished University Professor
- 2005-2013, Georgia State University, USA, Chair, Department of Computer Science
- 2004-2013, Georgia State University, USA, Professor, Department of Computer Science
- 2000-2004, Georgia State University, USA, Associate Professor, Department of Computer Science
- 08/96-08/00, University of Dayton, USA, Associate Professor, Department of Computer Science
- December/04, University of Tsukuba, Japan, JSPS-NSF Senior Fellow, Department of Computer Science
- December/98, University of Tsukuba, Japan, JSPS Senior Fellow, Institute of Information Science
- 8/98-10/98, University of Aizu, Japan, Visiting Researcher, Department of Computer Hardware
- Summer/1998, University of Vermont, Visiting Associate Professor, Department of Computer Science
- Summer/1997, Wright-Patterson Air Force Base, USA, AFOSR Summer Faculty Research Fellow
- Summer/1996, Louisiana State University, Visiting Assistant Professor, Department of Electrical and Computer Engineering
- Summer/1995, Kansas State University, Visiting Researcher, Department of Computing and Information Science
- 8/91-8/96, University of Dayton, USA, Assistant Professor, Department of Computer Science
- 1/87-8/91, University of Pittsburgh, USA, Teaching Fellow/Teaching Assistant, Department of Computer Science
- 9/86-1/87, University of Calgary, Canada, Teaching Assistant, Department of Computer Science
- 9/82-8/86, Tsinghua University, China, Research Assistant/Teaching Assistant, Department of Computer Engineering and Science

HONORS AND AWARDS

- Keynote Speaker at The First International Conference on Big Data and Security(ICBDS 2019), Dec. 20-22, 2019, Nanjing, China.
- Keynote Speaker at The 9th International Conference on Computational Advances in Bio and medical Sciences (ICCABS 2019), Nov. 15-17, 2019, Miami, Florida.
- Keynote Speaker at The Seventh International Conference on Advanced Cloud and Big Data, Sept. 21-22, 2019, Suzhou, China.
- IEEE Outstanding Leadership Award, 2019 IEEE International Congress on Cybermatics, Atlanta, Georgia, USA, July 14-17, 2019.

- IEEE Best Paper Award, 5th IEEE International Conference on Smart Data, July 14-17, 2019, USA.
- Keynote Speaker at 2019 International Conference on Web Services, June 25-30, 2019, San Diego, CA, USA.
- Elected Member of EU Academy of Sciences, 2019.
- Invited Summit Speaker at Deep Learning in Healthcare Summit 2019, Boston, May 22-23, 2019.
- Keynote Speaker at ACMSE 2019, Kennesaw, GA, April 18-20, 2019.
- Keynote Speaker at NCCBB 2019, Chengdu, China, March 30-31, 2019.
- Keynote Speaker, World IT Congress 2019, Jeju, Korea, February 11-13, 2019.
- Keynote Speaker at BDIOT 2018, Beijing, China, Oct. 24-27, 2018.
- Best Poster Presentation Award (as Co-Author and Advisor), GSU MBD Program Poster Session, Oct. 27, 2018.
- Keynote Speaker at Cybermatics 2018, CPSCom 2018, CIT 2018, GreenCom 2018, SmartData 2018, iThings 2018, Blockchain 2018 Halifax, Canada, July 30 - August 03, 2018.
- Keynote Speaker at BigData Expo Summit, Guiyang, China, May 25-29, 2018.
- Outstanding Service Award, Korea Information Processing Society Computer Software Research Group, April 23, 2018.
- Keynote Speaker at Future Tech 2018 and MUE 2018, Salerno, Italy, April 23-25, 2018.
- Keynote Speaker at PDCAT, Taipei, Dec. 18-20, 2017.
- IEEE Outstanding Award, IEEE Computer Society and TCSC of IEEE, June 21, 2017.
- Keynote Speaker at GreenCom 2017, Exeter, UK, June 21-23, 2017.
- Keynote Speaker at CPSCom 2017, Exeter, UK, June 21-23, 2017.
- Keynote Speaker at SmartData 2017, Exeter, UK, June 21-23, 2017.
- Keynote Speaker at IC3INA 2017, Jakarta, Indonesia, Oct. 23-24, 2017.
- Distinguished Speaker, University of Central Florida, Jan. 20, 2017
- Outstanding Service Award, Korea Information Processing Society CSWRG, Bangkok, Thailand, Dec. 19, 2016.
- Keynote Speaker at CSA 2016, Bangkok, Thailand, Dec. 19-21, 2016.
- Keynote Speaker at Cute 2016, Bangkok, Thailand, Dec. 19-21, 2016.
- 2016 Excellent PhD Dissertation Honorable Mention Award (as Co-Advisor), Chinese Association for Artificial Intelligence (CAAI), July 2016.
- Excellent Student Paper Award (as Co-Author and Co-Advisor), IEEE Chengdu Section, January 2016.

- Keynote Speaker at RTIS 2016, Beijing, China, September 1-3, 2016.
- Keynote Speaker at 2016 JCMIT and HL7 Asia Annual Meeting, Taipei, Taiwan, June 11-12, 2016.
- Keynote Speaker at World IT Congress 2016, Jeju, Korea, Feb. 17-19, 2016.
- Certificate of Appreciation for Outstanding Service, IEEE ICCABS 2015, Oct. 15-17, 2015.
- Best Paper Award, Joint Genome Informatics Workshop (GIW) and International Conference on Bioinformatics (InCoB), Tokyo, Japan, Sept. 9-11, 2015.
- Best Paper Award, Tsinghua Science and Technology Journal, September 2015.
- Keynote Speaker at FSDM 2015, Shanghai, China, December 12-15, 2015.
- Keynote Speaker at CAINE 2015, San Diego, October 12-14, 2015.
- Keynote Speaker at BigDataSE 2015, ISPA 2015 and TrustCom 2015, Helsinki, Finland, 20-22 August, 2015.
- Keynote Speaker at BDCA 2015, Tetuan, Morocco, May 25-26, 2015.
- Keynote Speaker at DNA and Genome Day 2015, Nanjing, China, April 25-28, 2015.
- Keynote Speaker at CBD 2014, Nov. 20-22, 2014, Huangshan, China.
- Keynote Speaker at WI 2014, August 11-14, 2014, Warsaw, Poland.
- Keynote Speaker at IAT 2014, August 11-14, 2014, Warsaw, Poland.
- keynote speaker at GSU's MBDAF Research Day, June 13th, 2014, Atlanta, GA.
- 2013 IBM Faculty Award, June 2013.
- Keynote Speaker at HPCC 2013, EUC 2013, CSS 2013, Zhangjiajie, China, Nov. 13-15, 2013.
- Keynote Speaker at ChinaGrid 2013, Changchun, China, August 22-23, 2013.
- Keynote Speaker at TrustCom 2013, ISPA 2013, IUCC 2013, Melbourne, Australia, July 16-18, 2013.
- Keynote Speaker at CMCB 2013, Suzhou, China, June 14-16, 2013.
- Keynote Speaker at CloudFlow 2013, Boston, USA, May 20-24, 2013.
- Keynote Speaker at ICICES 2013, Chennai, India, Feb. 21-22, 2013.
- Best Paper Award, The 8th International Conference on Mobile Ad-hoc and Sensor Networks, December 14-16, 2012.
- 2012 IBM Faculty Award, November 2012.
- Keynote Speaker at WCC 2012, Jeju, Korea, Nov. 22-25, 2012.
- Keynote Speaker at iCETS 2012, Tianjin, China, August 29-31, 2012.
- Keynote Speaker at CSSS 2012, Nanjing, China, August 11-13, 2012.

- Keynote Speaker at BICOB 2012, Las Vegas, Nevada, USA, March 12 - 14, 2012.
- The 2011 Best Paper Award for the IEEE Transactions on Industrial Informatics (cash value \$2000), November 2011.
- 2011 IBM Faculty Award, September 2011.
- Keynote Speaker at TrustCom 2011 , ICESS 2011 , and FCST 2011 , Changsha, China, Nov. 16-18, 2011.
- Keynote Speaker at ICISE 2011, Yangzhou, China, Sept. 30-Oct. 1, 2011.
- Keynote Speaker at iCAST 2011, Dalian, China, Sept. 27-30, 2011.
- Keynote Speaker at ETDC 2011, College of Electronic Technology BaniWalid, Libya Sept. 13-15, 2011 (cancelled).
- 2010 IBM Faculty Award, August 2010.
- Keynote Speaker at ICISE 2010, Hangzhou, China, Dec. 3-5, 2010.
- Keynote Speaker at CCCM 2010, Yangzhou, China, August 20-22, 2010.
- Keynote Speaker at CIT 2010, Bradford, UK, June 29-July 1, 2010.
- Keynote Speaker at ICFCC 2010, Wuhan, China, May 21-24, 2010.
- Keynote Speaker at ICISE '09, Nanjing, China, Dec 26-28, 2009.
- Plenary Keynote Award, ISIBM IJCBS 2009, Shanghai, China, August 2009.
- Keynote Speaker at IJCBS '09, Shanghai, China, August 3-5, 2009.
- Keynote Speaker at ICYCS '08, Zhang Jia Jie, Hunan, China, November 18-21, 2008.
- Plenary Speaker at ANNIE '08, Rolla, MO, Nov. 9-12, 2008.
- Keynote Speaker at PDSEC '08, Miami, FL, April 18, 2008.
- Outstanding Achievement Award, 7th IEEE BIBE Conference, Oct. 2007.
- Keynote Speaker at BIBE '07, Cambridge - Boston, USA, October 15-17, 2007.
- Invited Speaker of Distinguished Lecture Series, School of Computing and Information Sciences at FIU, Oct. 5, 2007.
- Keynote Speaker at AINA '07, Niagara Falls, Canada, May 21-23, 2007.
- Plenary Speaker at DMB '06, Hong Kong, December 18, 2006.
- Keynote Speaker at DPCS '06, Xian, China, October 19-21, 2006.
- Keynote Speaker at IECT '05, Chengdu, China, September 29, 2005.
- Keynote Speaker at IEEE CIT '05, Shanghai, China, September 21-24, 2005.

- Keynote Speaker at IEEE GrC '05, Beijing, China, July 25-27, 2005.
- Keynote Speaker at MAICS '05, Dayton, Ohio, USA, April 2005.
- Distinguished Speaker in the CS Distinguished Speaker Series, UD, April 15, 2005.
- Distinguished Speaker in the CIS Distinguished Speaker Series, IUPUI, Sept. 24, 2004.
- JSPS-NSF Senior Invitation Fellowship, Dec. 15-30, 2004.
- Keynote Speaker at ICCIC '04, Las Vegas, USA, June 2004.
- Keynote Speaker at PMEOPDS '04, Santa Fe, USA, April 2004.
- Keynote Speaker at PDCAT '03, Chengdu, China, 27-29 August 2003.
- Keynote Speaker at ISPA '03, Aizu-Wakamatsu City, Japan, July 2-4, 2003.
- Keynote Speaker at PDSECA '02, Fort Lauderdale, Florida, April 19, 2002.
- Yamacraw Distinguished Speaker, Savannah, Georgia, Oct. 4, 2002.
- Achievement Award, The World Academy of Sciences (2002),
- Nominated as 'Expert Assessor of International Standing' by Expert Advisory Committees of the Australian Research Council, 2002.
- Invited Oversea Speaker at Workshop on Optical Switching, National Chiao Tung University, Taiwan, May 25-26, 2001.
- Visiting Researcher Support Program Award (240,000 Japanese Yen) from the International Information Science Foundation based in Japan (2001).
- Speaker of Distinguished Visitor Program, IEEE Computer Society (2000 - 2002).
- 1999 Outstanding Scholarship Award of the College of Arts and Sciences at University of Dayton
- Senior Invitation Fellowship, Japan Society for Promotion of Science, 1998.
- Summer Faculty Research Fellowship, Air Force Office of Scientific Research, 1997.
- Best Paper Award, 2nd International Conference on Parallel and Distributed Processing Techniques and Applications, Sunnyvale, CA, August 1996.
- Research Opportunity Award, National Science Foundation, 1995, 1996.
- Summer Research Fellowship, University of Dayton Research Council, 1993.
- Andrew Mellon Predoctoral Fellowship, Mellon Foundation, 1990-1991.
- Teaching Fellowship, University of Pittsburgh, 1989-1990.
- First Rank in the College Entrance Examination in Jiangsu Province among all 1977 high school graduates (out of 70,000 students).

RESEARCH GRANTS

- External Grants

- National Science Foundation (NSF), "SaTC: EDU: Collaborative: Advancing Cybersecurity Learning Through Inquiry-based Laboratories on a Container-based Virtualization Platform," NSF Award Number DGU-1912753, Co-PI with Zhipeng Cai, and Wei Li, Total \$481,360 (GSU portion \$331,360), July 1, 2019 - June 30, 2022.
- Invest Canada Alliance (ICA), "A Framework for Smart Data Trading Platform", Co-PI with Zhipeng Cai and Wei Li, \$200,472.00, Proposal Number CON011644 (SP00013642), 01/15/2019-01/15/2022.
- National Science Foundation (NSF), "Travel Support: 15th International Symposium on Bioinformatics Research and Applications," NSF Award Number IIS-1923679, PI with co-PIs Pavel Skums, Zhipeng Cai, and Aleksandr Zelikovskiy, \$20,000, July 15, 2019 - July 14, 2020.
- "Deep Learning Research," NSF in advanced computing infrastructure for U.S High Performance Petascale Computing at the Extreme Science and Engineering Discovery Environment (XSEDE) (Proposal No. CCR 170029 Renew), PI, PSC GPU (Bridges GPU): 15,167.0 GPU Hours, PSC Regular Memory (Bridges): 5,000.0 SUs PSC Storage (Bridges Pylon): 1,000.0 GB, \$6,240.37, 07/01/2019 - 06/30/2020.
- National Science Foundation (NSF), "REU Site: Research Experience for Undergraduates in Immersive Media Computing," NSF Award No. CNS 1852516, \$316,794.00, Senior Investigator with Zhisheng Yan (PI), February 1, 2019 - January 31, 2022.
- AI Knights, "An analytics toolbox for business data," Co-PI with Zhipeng Cai, Yingshu Li and Wei Li, \$20,000.00, Proposal Number CON011708 (SP00013633), 01/01/2019 - 12/31/2021.
- National Science Foundation (NSF), "Collaborative Learning in Cloud-based Virtual Computer Labs," NSF Award Number IUSE 1712384, Co-PI with Xiaolin Hu and Anu Bourgeois, \$300,000.00, August 15, 2017 - August 14, 2020.
- Zoo Atlanta, "Research Agreement for Supporting GRA, Visiting Scientist or Scholar," PI: Yi Pan, \$62,500.00, Proposal Number CON005870 (SP00010049), 01/01/2019 - 12/31/2020.
- National Institutes of Health (NIH), "Histone methyltransferase SUV420H2 regulates brown/beige adipocyte thermogenesis and energy homeostasis.," NIH Award Number: 1R01DK107544-01, Bingzhong Xue (PI), Hang Shi (Co-Investigator) and Yi Pan (Co-Investigator), \$1,374,286, 2/11/2016-1/31/2020.
- "Drug Discovery and Computer-Go in Deep Learning," NSF in advanced computing infrastructure for U.S High Performance Petascale Computing at the Extreme Science and Engineering Discovery Environment (XSEDE) (Proposal No. CCR170029 New), PI, PSC GPU (Bridges GPU): 12,868.0 SUs PSC Storage (Bridges Pylon): 500.0 GB, \$4,411.14, 01/01/2018 - 12/31/2018.
- National Science Foundation (NSF), "Travel Support: 12th International Symposium on Bioinformatics Research and Applications," NSF Award Number IIS-1639612, Co-PI with Aleksandr Zelikovskiy, Zhipeng Cai, Ion Mandoiu, and Rajshekhar Sunderraman, \$20,000, June 1, 2016 - November 30, 2017.
- "Deep Learning Architecture and Application," NSF in advanced computing infrastructure for U.S High Performance Petascale Computing at the Extreme Science and Engineering Discovery

- Environment (XSEDE) (Proposal No. CCR170013 New), PI, GPU 2,500 SUs, Memory 5,000 SUs, Storage 2,000.0 GB, \$1,097.00, June 20, 2017 - June 19, 2018.
- National Science Foundation (NSF), "Capacity Building: Collaborative Research: Integrated Learning Environment for Cyber Security of Smart Grid," NSF Award Number DUE-1303359, PI at GSU, \$518,269 (GSU's portion \$153,028.00), Sept. 15, 2013 - Aug. 31, 2018.
 - National Science Foundation (NSF), "Collaborative Research: Real World Relevant Security Labware for Mobile Threat Analysis and Protection Experience," NSF Award Number DUE-1244665, PI at GSU, \$200,000.00 (GSU's portion \$60,000.00), Sept. 15, 2013 - Aug. 31, 2017.
 - NVIDIA Academic Hardware Grant, PI, One NVIDIA Tesla K40 GPU Computing Processor (Market Value \$3000.00), June 2016.
 - National Science Foundation (NSF), "Travel Support: 11th International Symposium on Bioinformatics Research and Applications," NSF Award Number IIS-1542617, Co-PI with Aleksandr Zelikovskiy, Rajshekhar Sunderraman, Ion Mandoiu, and Yaohang Li, \$20,000, May 1, 2015 - April 30, 2016.
 - 2013 IBM Faculty Award, Cash gift \$20,000.00, June 2013.
 - 2012 IBM Faculty Award, Cash gift \$40,000.00, November 2012.
 - National Natural Science Foundation of China (NSFC), "Highly Efficient Computational Methods for Processing Complex Biological Data," RMB 2,800,000.00 (about US\$444,444.00), co-PI with Jianxin Wang, Jan. 1, 2013 - Dec. 31, 2017.
 - National Science Foundation (NSF), "REU Site: Summer Research for Undergraduates in High Performance Data Mining," NSF Award No. ACI-1156733, \$309,483.00, Co-PI with Yanqing Zhang, March 1, 2012 - Feb. 29, 2015.
 - 2011 IBM Faculty Award, Cash gift \$20,000.00, September 2011.
 - National Science Foundation (NSF), "Travel Awards for The 2011 IEEE International Conference on Bioinformatics and Biomedicine," NSF Award No. CCF-1142717, \$16,000.00, PI with Xiaohua Hu, September 1, 2011 - August 31, 2012.
 - Bavaria California Technology Center (BaCaTeC) of Germany, "Parallel Scientific Computing on Public Computing Platforms," Euro 3000.00, Co-PI with Thomas Rauber, 2010-2011.
 - National Science Foundation (NSF), "Travel Support: 7th International Symposium on Bioinformatics Research and Applications," NSF Award No. IIS-1116001, \$20,000.00, Co-PI with Aleksandr Zelikovskiy and Ion Mandoiu, April 1, 2011 - March 31, 2012.
 - IEEE and National Science Foundation (NSF), A Department-wide Multi-course Multi-semester Adoption at Georgia State University, the sub-award for EarlyAdopter-II, National Science Foundation, \$2,500, 8/1/2011/31/2012, PI: Y. Pan, Co-PIs: Jaman Bhola, Anu Bourgeois, Xiaojun Cao, Xiaolin Hu, Yingshu Li, Henry Louis, Sushil Prasad, WenZhan Song, Raj Sunderraman, Michael Weeks, Y.-Q. Zhang and Ying Zhu.
 - National Natural Science Foundation of China (NSFC), "Research in Methods and Applications for Functional Modules Discovery in Dynamic Protein Interaction Networks," RMB 220,000.00, co-PI with Min Li, Jan. 1, 2011 - Dec. 31, 2013.
 - 2010 IBM Faculty Award, Cash gift \$24,000.00, August 2010.

- National Science Foundation (NSF), “Reliability Modeling for Large-Scale Networking System (LSNS), and Self-Improvement in LSNS”, NSF Award No. CNS-0831634, \$160,000.00, sole-PI, Sept. 1, 2008 - Aug. 31, 2012.
- National Science Foundation (NSF), “High Performance Rough Sets Data Analysis in Data Mining,” NSF Award No. CCF-0514750, \$137,481.00, sole-PI, July 15, 2005 - June 30, 2010.
- National Institutes of Health (NIH), “SecA: Membrane Protein Modeling - Supplement to “Protein Translocation Across Escherichia Coli Membranes,” NIH Award No. 3 R01 GM34766-17S1, \$327,375.00, Collaborator with PC Tai (PI) and Rob Harrison (Consultant), Feb. 1, 2003 - June 30, 2008.
- National Science Foundation (NSF), “Transmembrane Protein Segment Prediction and Understanding based on Machine Learning Methods,” NSF Award No. CCF-0646102, \$30,000.00, PI with R. Harrison and PC Tai, Sept. 1, 2006 - Feb. 28, 2008.
- National Science Foundation (NSF), “Bandgap Engineered Ultrafast Heterostructure Avalanche Photodiodes,” subcontract of NSF Award No. ECS-0334813 (from University of New Mexico), \$20,000.00, sole-PI, October 1, 2003 - September 30, 2006.
- National Science Foundation (NSF), “Modeling and Optimization of Ultrafast and Low-Noise Thin Avalanche Photodiodes for Optical Communications,” NSF Award No. ECS-0196569, \$299,830.00, Co-PI with Majeed M. Hayat and Joe Campbell, August 15, 2001 - August 31, 2004.
- National Institutes of Health (NIH), “Georgia State University Biomedical Computing Center,” NIH Award No. 1 P20 GM065762-01A1, \$1,091,250.00, Senior Investigator with Robert Harrison (PI), and Irene Webb (co-PI), and several others, June 1, 2003 - May 31, 2006.
- National Natural Science Foundation of China, “Investigation on the optimization theory and applications of the resource management in cellular networks”, Grant No. 60440420451 (Two-Base project), RMB200,000.00, Oversea Principal Investigator, January 1, 2005 - December 30, 2007.
- Hong Kong Research Grant Council CERG Program, “QoS Mobile Group Communications - A Unifying Framework,” RGC Award No. PolyU 5170/03E, HK\$377,149.00, Co-Investigator with Cao Jiannong (PI), Sajal Das (co-PI, University of Texas at Arlington, USA) and Xingwei Wang (co-PI, Northeastern University, PRC), June 1, 2003 - May 31, 2005 (24 months).
- Hong Kong Research Grant Council CREG Program, “Supporting Efficient and Fault-Tolerant Location Management in Mobile-IP Systems,” RGC Award No. CityU 1203/03E, HK\$377,149.00, Co-Investigator with Xiaola Lin (PI), Rynson W. H. Lau (co-PI), June 1, 2003 - May 31, 2005 (24 months).
- State of Georgia Yamacraw Embedded Software Program, “System on Devices: A Middleware for Collaborative Applications on Wireless Handheld Devices,” \$318,000.00, Co-PI with S. Prasad and 7 others, July 01, 2002 - June 30, 2003.
- State of Georgia Yamacraw Embedded Software Program, “System on Devices: An Embedded Software Environment for a Collection of Wireless Handheld Devices,” \$233,000.00, Co-PI with S. Prasad and 6 others, July 01, 2001 - June 30, 2002.
- Japan Society for Promotion of Science (Japan’s NSF), “Automatic Parallelization and Optimization for Irregular Applications,” JSPS Grant-in-Aid for Scientific Research (Basic Research (C)(2)) Program No. 14580386, 4,000,000 Yen, Co-PI with Minyi Guo and Ikuo Nakata, April 1, 2002 - March 31, 2004.

- Air Force Research Laboratory (via Ball Aerospace and Technologies Corp.) “Parallelization of High-Order Multi-Domain PADE Solver FDL2DICE through Domain Decomposition,” \$42,959.00, Sole PI, Sept. 25, 2000 - Sept. 24, 2001.
- Joint AFRL/DAGSI Research Program, “Application Accelerating Reconfigurable Computer,” \$399,782.00, (Co-PI with Ranga Vemuri, Santosh Pande, Jack Jean and Karen Tomko), May 2000-June 2002.
- Air Force Office of Scientific Research (AFOSR), “Parallelization of the Time-Dependent Maxwell Equations Using High Performance Fortran,” \$25,000.00, awarded January 1998, January 1, 1998 - December 31, 1998, Contract No. F49620-93-C-0063 (Subcontract No. 980838).
- Air Force Office of Scientific Research (AFOSR) Summer Faculty Research Fellowship, \$7500.00, awarded April 1997.
- Ohio Board of Regents Research Challenge Grant, “Water Spray Cooling of Combustion Processes on Supercomputers,” \$20,000.00, (Co-PI with Elizabeth A. Ervin), awarded January 1997.
- National Science Foundation, “Algorithmic Scalability in Reconfigurable Bus-based Models,” \$12,996.00, awarded July 1996, National Science Foundation’s Research Opportunity Award program.
- Ohio Board of Regents Investment Fund Competition Grant, “OCARNet: Ohio Computing and Communications ATM Research Network,” \$1,721,730.00, (Co-PI with Raj Jain, Russ Clark et al.), awarded March 1996.
- Air Force Research Grant, “A real-time planner for the dynamic load balancing in a heterogeneous network of processors,” \$43,962.00, awarded October 1994, Contract No. F33615-92-C-2218, Task 18.
- National Science Foundation, “Distributed Composite Protocols,” \$15,640, awarded February 1995, National Science Foundation’s Research Opportunity Award program.

- **Internal Grants**

- GSU Research Program Enhancement Grant, “Bioinformatics,” \$180,000.00, Co-PI with I. Weber, G.T. Chen, R. Harrison, July 1, 2010 - June 30, 2013.
- GSU Research Program Enhancement Grant, “Bioinformatics,” \$180,000.00, Co-PI with I. Weber, G.T. Chen, R. Harrison, July 1, 2007 - June 30, 2010.
- GSU Faculty Mentored Grant, “Rogue Access Point Detection Using Temporal Traffic Characteristics,” \$11,000.00, Mentor with Abdul Beyah (Mentee), March 20, 2006 - June 30, 2007.
- GSU Research Program Enhancement Grant, “Bioinformatics,” \$180,000.00, Co-PI with I. Weber, S. Datta, R. Harrison, July 1, 2004 - June 30, 2007.
- GSU Brains & Behavior Program Seed Grant, “Artificial Neural Networks with Silicon Circuits - Simulation and Parallel Computing”, \$16,500, Co-PI with U. Perera and M. Moore, Oct 1, 2004 to Sept 30, 2005.
- GSU Brains & Behavior Program Seed Grant, “Processing and Analysis of Confocal Microscopic Images of Neurons”, \$24,000, Co-PI with S. Belkasim and D. Edwards, Oct 1, 2004 to Sept 30, 2005.
- GSU Research Initiation Grant Award, “More Efficient Location Management for Wireless Networks,” \$8,000.00, Sole PI, July 1, 2001 - June 30, 2002.

- GSU Research Team Grant, "Smart Web Browsing and Searching on PDAs and Cell Phones," \$14,900, Co-PI with S. Prasad, R. Sunderraman, and Y. Zhang, July 1, 2001 - June 30, 2002.
- University of Dayton Research Council Grant (Grants-In-Aid and Summer Research Fellowship), "Image Processing on Reconfigurable Meshes," \$4000.00, sole PI, January - August 2000.
- University of Dayton Research Council Grant (Grants-In-Aid and Summer Research Fellowship), "Design and Analysis of Distributed Election Algorithms," \$4000.00, sole PI, January - August 1993.
- University of Dayton Research Council Grant (Grants-In-Aid and Equipment Grant), "Interconnection Networks for Parallel Processing," \$5000.00, sole PI, January - August 1992.

JOURNAL EDITORSHIP

• Editor-in-Chief

- Associate Editor-in-Chief, *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 2020-present.
- Founding Series Editor of the Wiley Book Series on *Bioinformatics: Computational Techniques and Engineering*, (John Wiley & Sons, Inc., USA), 2005-2016.
- Founding Series Editor of the Wiley Book Series on *Wireless Communications and Mobile Computing*, (John Wiley & Sons, Inc., USA), 2007-2015.
- Chair of Advisory Board, *Journal of Wireless and Mobile Computing*, (Inderscience Publishers, UK), 2004-2010.
- Area Editor-in-Chief, *INFORMATION, an International Journal* (International Information Institute, Japan), 2000-2002.

• Associate Editor

- *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 2008-present.
- *IEEE Transactions on NanoBioscience*, 2005-present.
- *IEEE Transactions on Computers*, 2013-2014.
- *IEEE Transactions on Parallel and Distributed Systems*, 2005-2009.
- *IEEE Transactions on Systems, Man, and Cybernetics - Part A: Systems and Humans*, 2001-2008.
- *IEEE Transactions on Systems, Man, and Cybernetics - Part B: Cybernetics*, 2001-2005.
- *IEEE Transactions on Systems, Man, and Cybernetics - Part C: Applications and Reviews*, 2001-2002.

• Editorial Board

- *International Journal of Security and Networks*, 2005-present.
- *LNCS Transactions on Computational Systems Biology*, 2004-present.
- *Journal of Parallel and Distributed Computing*, 2010-2011.
- *Chinese Journal of Electronics (English Version)*, 2006-2010.

- *Chinese Journal of Bioinformatics (in Chinese)*, 2006-2010.
- *Journal of Computational Intelligence in Bioinformatics*, 2006-2010.
- *Journal of Wireless Communications and Mobile Computing*, 2004-2008.
- *Optimization Letters*, 2006-2009.
- *Journal of Mobile Multimedia*, 2004-2008.
- *The Journal of Supercomputing*, 1999-2006.
- *Parallel and Distributed Computing Practices*, 1998-2004.
- *International Journal of Computers and Applications*, 2003-2005.
- *International Journal of Parallel and Distributed Systems and Networks*, 1997-2002.
- *INFORMATION, an International Journal*, 2003-2005.

• **Guest Editor**

- Special Section on Computational Genomics and Molecular Medicine For Emerging COVID-19 of *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 2021.
- IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS Special Issue on AI-driven Informatics, Sensing, Imaging and Big Data Analytics for Fighting the COVID-19 Pandemic, 2021.
- IEEE TRANSACTIONS ON COMPUTATIONAL SOCIAL SYSTEMS, Special Issue on Social Sensing and Privacy Computing in Intelligent Social Systems, VOL. 7, NO. 1, FEBRUARY 2020.
- IEEE Internet of Things Journal Special Issue on Advanced Computational Technologies in Mobile Edge Computing for Internet of Things, Vol. 6, No. 3, June 2019.
- IEEE Network Special Issue on Edge Computing for the Internet of things, Vol. 32, January/February 2018.
- Special Section on ISBRA '14 of *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, Vol. 14, No. 2, March 2017.
- Special Issue on Underwater acoustic sensor networks of *International Journal of Distributed Sensor Networks*, 12(8) (2016).
- Special Issue on the 10th International Symposium on Bioinformatics Research and Applications (ISBRA 2014) *IEEE Transactions on NanoBioscience*, March 2015.
- Special Issue on “Bioinformatics and Computational Biology” of *Tsinghua Science and Technology*, Vol. 19, No. 6, December 2014.
- Special Issue on “Bioinformatics and Computational Biology” of *Tsinghua Science and Technology*, Vol. 18, No. 5, October 2013.
- Special Issue on “Bioinformatics and Computational Biology” of *Tsinghua Science and Technology*, Vol. 17, No. 6, December 2012.
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160. K. Li, Y. Pan, H. Shen, G. H. Young, and S. Q. Zheng, "Lower Bounds for Dynamic Tree Embedding in Bipartite Networks," *Proceedings of 1998 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'98)*, Las Vegas, Nevada pp. 1766-1773, July 1998.
161. K. Li, Y. Pan, and S. Q. Zheng, "Novel Implementations of Parallel Matrix Multiplication Algorithms Using Optical Buses" *Proceedings of 1998 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'98)*, Las Vegas, Nevada, pp. 1212-1220, July 1998.
162. J.S. Shang, M. Wagner, Y. Pan, D. C. Blake and C.J. Suchyta, "Strategies for Solving Time-Dependent Maxwell Equations on Multicomputers," *Proceedings of DoD High Performance Computing Modernization Program User Group Conference*, Paper 6A, Houston, TX, June 1-4, 1998.
163. Y. Yang, J. Wang, and Yi Pan, "Permutation Capability of Optical Multistage Interconnection Networks," *12th International Parallel Processing Symposium & 9th Symposium on Parallel and Distributed Processing*, Orlando, Florida, March 30 - April 3, 1998, pp. 125-133.

164. J.S. Shang, M. Wagner, Y. Pan and D.C. Blake, "Strategies for time-domain CEM computations on multicomputers," *36th Aerospace Sciences Meeting*, Reno, NV, January 12-15, 1998, AIAA Reprint 98-0979.
165. Y. Pan, K. Li, and S.-Q. Zheng, "Fast nearest neighbor algorithms on a linear array with a reconfigurable pipelined bus system," *Proceedings of the 3rd IEEE International Symposium on Parallel Architectures, Algorithms, and Networks*, December 1997, pp. 444-450.
166. H. Shen, K. Li, Y. Pan, G.H. Young, and S.-Q. Zheng, "Performance analysis for dynamic tree embedding in k-partite networks by random walk," *Proceedings of the 3rd IEEE International Symposium on Parallel Architectures, Algorithms, and Networks*, December 1997, pp. 451-457.
167. Mounir Hamdi, Yi Pan, B. Hamidzadeh and F. M. Lim, "Potentials and Limitations of Parallel Computing on a Cluster of Workstations," *1997 IEEE International Conference on Parallel and Distributed Systems*, Dec. 15-17 1997, pp. 572-577.
168. Yi Pan, J. L. Trahan and R. Vaidyanathan, "A Scalable and Efficient Algorithm for Computing the City Block Distance Transform on Reconfigurable Meshes," *9th International Conference on Parallel and Distributed Computing and Systems*, Washington, DC, October 1997, pp. 85-90.
169. Jerry L. Trahan, Yi Pan, Ramachandran Vaidyanathan, and Anu G. Bourgeois, "Scalable basic algorithms on a linear array with a reconfigurable pipelined bus system," *10th International Conference on Parallel and Distributed Computing Systems*, Oct. 1-3, 1997, New Orleans, LA, USA, pp. 564-569.
170. Yi Pan and K. Li, "A Constant-Time Algorithm for computing the Euclidean Distance Transform on Reconfigurable Meshes," *IEEE National Aerospace and Electronics Conference*, Dayton, Ohio, July 14-18, 1997, pp. 263-270.
171. Y. Pan, K. Li, and M. Hamdi, "Euclidean Distance Transform on Reconfigurable Meshes," *3rd International Conference on Parallel and Distributed Processing Techniques and Applications*, Las Vegas, NV, June 30-July 3, 1997, pp. 505-512.
172. S.-Q. Zheng, K. Li, Y. Pan, H. Shen, and G.H. Young, "On equal chromatic partition of networks," *3rd International Conference on Parallel and Distributed Processing Techniques and Applications*, Las Vegas, NV, June 30-July 3, 1997, Vol. III, pp. 1349-1355.
173. K. Li, Y. Pan, H. Shen, and S.-Q. Zheng, "A study of average-case speedup and scalability of parallel computations on static networks," *3rd International Conference on Parallel and Distributed Processing Techniques and Applications*, Las Vegas, NV, June 30-July 3, 1997, Vol. III, pp.1362-1371.
174. K. Li, Y. Pan, and S.-Q. Zheng, "Simulation of parallel random access machines on a linear array with a reconfigurable pipelined bus system," *3rd International Conference on Parallel and Distributed Processing Techniques and Applications*, Las Vegas, NV, June 30-July 3, 1997, Vol. II, pp.590-599.
175. Y. Li, Y. Pan and S.Q. Zheng, "A Pipelined TDM Optical Bus with Conditional Delays," *4th IEEE International Conference on Massively Parallel Processing Using Optical Interconnections (MPPOI '97)*, June 22-24, 1997, Montreal, Canada.
176. Y. Pan and K. Li, "The Radon and Hough transforms on a reconfigurable mesh," *Proceedings of 8th International Conference on Parallel and Distributed Computing and Systems*, Chicago, IL, October 1996, pp. 82-86.

177. Y. Pan and K. Li, "Linear array with a reconfigurable pipelined bus system – concepts and applications," *Proceedings of 2nd International Conference on Parallel and Distributed Processing Techniques and Applications*, Sunnyvale, CA, pp.1431-1442, August 1996.
178. K. Li and Y. Pan, "Characterizations of communication overhead for scalable random parallel algorithms on multicomputer systems," *Proceedings of 2nd International Conference on Parallel and Distributed Processing Techniques and Applications*, Sunnyvale, CA, pp.474-485, August 1996.
179. M. Hamdi and Y. Pan, "Communication-efficient algorithms on reconfigurable array of processors with spanning optical buses," *Proc. of 1996 IEEE International Symposium on Parallel Architectures, Algorithms, and Networks*, Beijing, China, June 12-14, 1996, pp. 440-446.
180. Y. Pan and M. Hamdi, "Quicksort on a linear array with a reconfigurable pipelined bus system," *Proc. of 1996 IEEE International Symposium on Parallel Architectures, Algorithms, and Networks*, Beijing, China, June 12-14, 1996, pp. 313-319.
181. K. Li and Y. Pan, "On scheduling precedence constrained parallel tasks on multiprocessors I: limitations of list scheduling strategies," *Proceedings of 1996 International Conference on Modeling and Simulation*, April 1996, pp. 63-66.
182. K. Li and Y. Pan, "On scheduling precedence constrained parallel tasks on multiprocessors II: performance analysis of a heuristic algorithm," *Proceedings of 1996 International Conference on Modeling and Simulation*, April 1996, pp. 67-71.
183. K. Li and Y. Pan, "On scheduling precedence constrained parallel tasks on multiprocessors III: an efficient heuristic for wide task graphs," *Proceedings of 1996 International Conference on Modeling and Simulation*, April 1996, pp. 72-75.
184. Yi Pan and Mounir Hamdi, "Selection on k-dimensional meshes with multiple broadcasting," *Proceedings of International Conference on Parallel and Distributed Processing Techniques and Applications*, Athens, Georgia, November 3-4, 1995, pp. 787-794.
185. C. Hopper and Y. Pan, "Task allocation in distributed computer systems through an AI planner solver," *Proceedings of the 47th IEEE National Aerospace and Electronics Conference*, V. 2, 1995, pp. 610-616.
186. Yi Pan and Henry Chuang, "Computations for some matrix and graph problems on the block shift network," *Proceedings of High Performance Computing '94*, San Diego, California, April 11-13, pp. 314-319, 1994.
187. Yi Pan and Mounir Hamdi, "Efficient Computation of Singular Value Decomposition on Arrays with Pipelined Optical Buses," *1993 ACM Symposium on Applied Computing*, Indianapolis, Indiana, February 14-16, 1993, pp. 525-532.
188. Yi Pan, "Hough transform on arrays with an optical bus," *Fifth ISMM International conference on Parallel and Distributed Computing and Systems*, Pittsburgh, PA, October 1-3, 1992, pp. 161-166.
189. Yi Pan, "On Efficient Distributed Elections in Clustered Chordal Rings," *1992 International Conference on Parallel Processing*, St. Charles, IL, August 17-21, 1992, pp. 141-144.
190. Yi Pan and Henry Chuang, "The Block Shift Network: A New Interconnection Network for Efficient Parallel Computation," *1991 International Conference on Parallel Processing*, St. Charles, IL, August 12-16, 1991.

191. Yi Pan and Henry Chuang, "Parallel Hough Transform Algorithms on SIMD Hypercube Arrays," *1990 International Conference on Parallel Processing*, St. Charles, IL, August 13-17, 1990, pp. 83-86.
192. Yi Pan and Henry Chuang, "Improved Mesh Algorithms for Straight Line Detection," *The 3rd Symposium on the Frontiers of Massively Parallel Computation*, College Park, MD, October 8-10, 1990, pp. 30-33.
193. Yi Pan, "Distributed Election in Partially Connected Networks with a Sense of Direction," *First Annual IEEE Symposium on Parallel and Distributed Processing*, Dallas, Texas, May 22-23, 1989, pp. 265-272.
194. Yi Pan and Henry Chuang, "Simulation of the Hot Spot Problem and Its Solutions in Message-Based Systems," *Twentieth Annual Pittsburgh Conference on Modeling and Simulation*, Pittsburgh, May 4-5, 1989, pp. 1061-1065.
195. Yi Pan, "Improved Token Passing Ring and Its Performance Simulation," *The 13th IEEE Conference on Local Computer Networks*, Minneapolis, Minnesota, Oct. 10-12, 1988, pp. 405-409.
196. L. Jin, M. Sheng, X. Liao, D. Zhou, Y. Yang, Y. Xu, and Y. Pan, "THUDS: a highly available distributed computer system," *Proceedings of the Sixth IFAC Workshop on Distributed Computer Control Systems*, Monterey, CA, USA, 1985, pp. 145-153.
197. Lan Jin and Yi Pan, "A Kind of Interconnection Network with Mixed Static and Dynamic Topologies," *The 5th IEEE International Conference on Distributed Computing Systems*, Denver, Colorado, May 1985, pp. 160-166.

● **Refereed Chinese Journals**

1. X. Chen and Yi Pan, "Performance Measurement in Distributed Computer Systems," *Journal of Computer Technology*, No. 2, 1988, pp.63-69.
2. Yi Pan, "Performance Analysis of the Mixed Static and Dynamic Network in the THUDS Distributed System," *Journal of Beijing Microcomputer*, No. 1, 1987, pp. 5-14.
3. Yi Pan, "Performance Simulation of the THUDS Distributed System," *Journal of Beijing Microcomputer*, No. 1, 1986, pp. 2-11.
4. Yi Pan, "Delay Time Analysis of Check-and-Forward Computer Networks," *Journal of Computer Research and Development*, No. 1, 1986, pp. 57-61.
5. Yi Pan, "Fault Diagnosis in Distributed Computer Systems," *Journal of Microelectronics and Computers*, No. 10, 1986, pp. 26-30.
6. Yi Pan, "A Broadcast Local Area Network with Collision-Avoidance Switches," *Journal of Computer Engineering and Design*, No. 3, 1986, pp. 14-19.
7. Yi Pan, "Design and Implementation of Datd Communication Between PDP-11/03 and TP801 using DRV-11," *Journal of Electronic Science and Technology*, No. 3, 1986, pp. 16-18.
8. Yi Pan, "Analysis of Three Typical Distributed Computer Systems," *Journal of Computer Science*, No. 6, 1985, pp. 46-51.
9. Yi Pan, "Reliability Analysis of Static Interconnection Networks for Distributed Computer Systems," *Journal of Computer Technology*, No. 1, 1985, pp. 24-29.
10. Yi Pan, "Research and Improvement of Loop-Type Local Area Networks," *Journal of Micro*, No. 5, 1985, pp. 1-8.

11. Yi Pan, "Switching Methods of Distributed Computer Systems," *Journal of Computer Engineering and Design*, No. 3, 1985, pp. 19-23.
12. Lan Jin and Yi Pan, "Static Interconnection Networks for Distributed Computer Systems," *Journal of Mini-Micro Computer Systems*, No. 2, 1984, pp. 53-61.

- **Research Reports**

1. Yi Pan, "Parallelization of High-Order Multi-Domain PADE Solver FDL2DICE through Domain Decomposition," Final Report for Ball Aerospace and Technologies Corp. and Air Force Research Lab, September 24, 2001.
2. Yi Pan, "Parallel Implementation of Computational Electromagnetics Simulation Using High Performance Fortran," Final Report for AFOSR Summer Research Extension Program, Air Force Office of Scientific Research, Bolling Air Force Base, DC, November 1998
3. Yi Pan, "Improvement of Cache Utilization and Parallel Efficiency of a Time-Dependent Maxwell Equation Solver on the SGI Origin 2000," Final Report for AFOSR Summer Faculty Research Program, Air Force Office of Scientific Research, Bolling Air Force Base, DC, August 1997.
4. Yi Pan, "Scheduling Tasks with Dependence Relations in Distributed Computer Systems Using an Intelligent Planning System," Final Report for Contract No. F33615-92-C-2218, Task 18, WL/AAAT-1, Wright-Patterson Air Force Base, Ohio, October 1995.

TEACHING EXPERIENCE

- **University of Pittsburgh (1987-1991)**

- Introduction to Programming with FORTRAN
- Introduction to Programming with PASCAL
- Data Structures and Intermediate Programming
- Assembly Language Programming

- **University of Dayton (1991-2000)**

- Advanced Computer Architecture
- Operating Systems
- Discrete Event Simulation
- Parallel Programming
- Compilers I
- Compilers II
- Algorithm Design
- Discrete Structures
- Programming for Engineering and Science

- **Georgia State University (2000-present)**

- System-Level Programming

- Operating Systems
- Parallel and Distributed Computing
- Advanced Computer Architecture
- Advanced Operating Systems
- Optical and Wireless Networks
- High Performance Computational Biology
- Topics in Computer Science on Sequence Analysis
- Topics in Computer Science on Cloud Computing
- Topics in Computer Science on Big Data Analytics
- Directed Readings in Computer Science
- Thesis Research
- Dissertation Research

VISITING SCHOLARS SPONSORED/SUPERVISED

- Xiuchun Xiao, Visiting Associate Professor, 2016-2017. (supported by China Scholarship Foundation).
- Hong Song, Visiting Associate Professor, 2016-2017. (supported by China Scholarship Foundation).
- Yu Sheng, Visiting Associate Professor, 2015-2016. (supported by China Scholarship Foundation).
- Wei Peng, Visiting Associate Professor, 2015-2016. (supported by China Scholarship Foundation).
- Guangli Xiang, Visiting Professor, 2014-2015. (supported by China Scholarship Foundation).
- Zhaohui Tang, Visiting Professor, June 2014- Dec. 2014. (supported by China Scholarship Foundation).
- Beiji Zou, Visiting Professor, June 2013- Dec. 2013. (supported by China Scholarship Foundation).
- Dr. Min Li, Postdoctoral Fellow, Dec. 2010 - Dec. 2011. (supported by China Scholarship Foundation).
- Dr. Jianxin Wang, Visiting Professor, 2009-2010. (supported by China Scholarship Foundation).
- Dr. Neal Xiong, Postdoctoral Fellow, March 2009 - March 2011 (supported by NSF grant).
- Dr. Jieyue He, Professor, Department of Computer Science and Engineering, Southeast University, Nanjing, China, Jan. 2008 - Jan. 2009 (supported by NSF and NIH grants).
- Prof. Qiaoliang Li, Professor, School of Computer and Communication, Hunan University, Changsha, China, Dec. 2007 - Dec. 2008 (supported by China Scholarship Council, Beijing, China).
- Dr. Shi-Jinn Horng, Professor and Dean of the College of Electrical Engineering and Computer Science, National United University of Taiwan, July 1 - Sept. 30, 2007. (supported by Taiwan's National Science Council).

- Prof. Jieyue He, Associate Professor, Department of Computer Science and Engineering, Southeast University, Nanjing, China, Oct. 25, 2004 - Oct. 24, 2005 (supported by China Scholarship Council, Beijing, China).
- Dr. Muhammad Ali, Assistant Professor, Department of Computer Science, Tuskegee University, Alabama, USA, June 2003 - August 2003 (supported by the National Science Foundation of USA).
- Dr. Muhammad Ali, Assistant Professor, Department of Computer Science, Tuskegee University, Alabama, USA, June 2002 - August 2002 (supported by the National Science Foundation of USA).
- Dr. Minyi Guo, Assistant Professor, University of Aizu, Japan, August 2001 - March 2002 (supported by the Ministry of Education, Culture, Sports, Science and Technology of Japan).
- Dr. Pingzhi Fan, Professor and Dean, College of Computer and Communication Engineering, Southwest Jiaotong University, China, May 2001 - August 2001 (supported by the National Committee of Oversea Study Fund of China).
- Dr. Shi-Jinn Horng, Professor, Department of Electrical Engineering, National Taiwan University of Science and Technology, Taiwan, June 2000 - September 2000 (supported by the National Science Council of Taiwan).

PhD DISSERTATIONS ADVISED

1. "Automatic and Manual Translation from Sequential to Parallel Programming on Cloud Systems," Bing Li, expected to defend in Spring 2018 (joined Snowflake Computing in January 2018).
2. "Modern Computing Techniques for Solving Genomic Problems," Ning Yu, completed in Summer 2016 (Now Tenure-Track Assistant Professor at SUNY at Brockport).
3. "Searching Genome-Wide Disease Association through SNP Data," Xuan Guo, completed in Summer 2015 (Post Doctoral Associate at Oak Ridge National Lab and now Tenure-Track Assistant Professor at University of North Texas).
4. "Algorithms for Motif Findings in Biological Networks," Wooyoung Kim, completed in Summer 2012 (now Tenure-Track Assistant Professor at University of Washington Bothell).
5. "Connected Dominating Set Based Topology Control in Wireless Sensor Networks," Jing He, completed in Summer 2012 (now Tenured Associate Professor at Kennesaw State University).
6. "Multiple Biological Sequence Alignment: Scoring Functions, Algorithms, and Measurements" Ken Nguyen, completed in Fall 2011 (now Tenured Associate Professor at Clayton State University, USA).
7. "Discovery and Extraction of Protein Sequence Motif Information that Transcends Protein Family Boundaries," Bernard Chen, completed in Summer 2008 (now Tenured Associate Professor of Computer Science at University of Central Arkansas).
8. "Machine Learning and Graph Theory Approaches for Classification and Prediction of Protein Structure," Gulsah Altun, co-advisor with Dr. Robert Harrison, completed in Spring 2008 (now Post Doc at University of California at San Diego).

9. "Prediction of Oxidation States of Cysteines and Disulphide Bridges in Protein," Aiguo Du, completed in Fall 2007 (now Senior Bioinformatician at Baylor College of Medicine).
10. "Design of Comprehensible Learning Systems for Protein Structure Prediction," Hae-Jin Hu, completed in Summer 2007 (now Research Professor at The Catholic University of Korea, South Korea).
11. "Identification Calcium-binding Sites and Predicting Disulfide Connectivity," Hai Deng, co-advisor with Dr. GT Chen, completed in Spring 2007 (now working in IT industry).
12. "Clustering System and Clustering Support Vector Machine for Local Protein Structure Prediction," Wei Zhong, completed in Summer 2006 (now Tenured Full Professor of Computer Science at University of South Carolina Upstate, USA).
13. "Decision Fusion for Protein Secondary Structure Prediction," Somasheker Akkaladevi, co-advisor with Dr. S. Belkasim, completed in Summer 2006 (now Tenured Associate Professor in Department of Computer Information Systems, Virginia State University).
14. "Topology Control, Routing Protocols and Performance Evaluation for Mobile Wireless Ad Hoc Networks," Hui Liu, completed in Fall 2005 (now Tenured Full Professor of Computer Science at Missouri State University, USA).
15. "Upper Bound Analysis and Routing in Optical Benes Networks," Jiling Zhong, completed in Fall 2005 (now Department Chair and Tenured Associate Professor of Computer Science at Troy State University, USA).
16. "Routing Algorithms and Performance Evaluation for Optical Multistage Networks with Limited Crosstalk," Ajay K. Katangur, completed in Fall 2004 (now Department Chair and Tenured Full Professor of Computer Science at Missouri State University, USA).

M.S. THESES/PROJECTS ADVISED

1. "Stock Prediction with Blending Ensemble Learning," Yang Li, Spring 2020.
2. "Adversarial Examples Threats to Neural Network," Yutong Gao, Spring 2020.
3. "DIAGNOSING RETINAL DISORDERS WITH RESIDUAL ATTENTION NETWORKS," Deontae Pharr, Winter 2019.
4. "Automatic Classification of Large Scale Brain Glioma Digital Pathology Images via Convolutional Neural Network Extracting Features," Zhujun Li, Winter 2019.
5. "Deep Neural Network Based Depression Diagnosis with Mobile Facial Recognition and Speech Analysis," Guangzheng Wu, Spring 2018.
6. "Human Activity Recognition (HAR) and Deep Convolution Neural Network (Convnet) to Model Student Data - An Approach to Mastery Based Learning," Ezra Williams-Daniel, Spring 2018.
7. "Deep Learning in Chemistry and Computer-Go," Menyuan Zhu, completed in Fall 2017.
8. "DNA Methylation Data Analysis Pipeline," Ziyue Chen, completed Spring 2017.

9. "A Face Recognition Application to Enhance Mobile Security on Android Smartphones," Zhangqi Gong, completed Spring 2015.
10. "Mobile Security System," Zhongli Ding, co-advisor with Yanqing Zhang, completed in Fall 2014.
11. "Hadoop Performance Enhancement by Compressing and Grouping Intermediate Values between Mappers and Reducers," Bing Li, completed in Spring 2014.
12. "Windows Applications and Web Services for Form Filing and Its Use in IT Automation," by Yu Meng, completed in Fall 2013.
13. "Mobile Application Development," Krishna Tatikonda, completed in Fall 2013.
14. "GSU Ez Map - An iPhone Application for GSU Students," by Sai Divya Panditi, completed in Spring 2013.
15. "Parallel K-Means Clustering on Windows Azure," JianSyuan Wong, **completed** in Summer 2012.
16. "Position Verification of Nodes in Clustered Vehicular Networks," Rucha Patel, **completed** in Fall 2010.
17. "Analysis of the Large-Scale Peer-to-Peer Network Topology," by Chao Xie, **completed** in 2007.
18. "An Enhanced Algorithm to Find Dominating Set Nodes in Ad Hoc Wireless Networks," Naresh Nanuvala, **completed** in Fall 2006.
19. "Implementation of Vertical Handoff Algorithm between IEEE802.11 WLAN and CDMA Cellular Networks," Mary Kavitha Narisetti, **completed** in Summer 2006.
20. "Scheduling Strategies for Public Computing - An Implementation on the BOINC Architecture," Stephen Pellicer, **completed** in Fall 2004.
21. "Parallel Algorithm for Memory Efficient Pairwise and Multiple Genome Alignment in Distributed Environment," Nova Ahmed, **completed** in Fall 2004.
22. "Parallel Implementation of Support Vector Machines with Applications to Protein Structure Prediction," Shilpa Panaganti, **completed** in Fall 2004.
23. "Parallel implementation of genomic distances under deletions and insertions," Vijaya Smitha Kolli, **completed** in Summer 2004.
24. "Parallel Implementations of Biofilm Modeling with OpenMP, HPF and Pthreads," Zhiyi Li, **completed** in Summer 2004.
25. "Implementation and analysis of genetic algorithms for molecular modeling," Rasmi M. Moan, **completed** in Spring 2004.
26. "An Improved Algorithm to Find Dominating Set Nodes in Ad Hoc Wireless Networks," Chunchun Ni, **completed** in November 2003.
27. Time and Space Efficient Algorithms for Biological Sequence Alignment," Zheng Xia, **completed** in November 2003.

28. "Prediction of Protein Secondary Structure Using Support Vector Machine Approach," Hae-Jin Hu, **completed** in November 2003.
29. "A Novel Modularized Optical Multistage Interconnection Network Architecture with Multicast Capability," Hao Tian, **completed** in July 2003.
30. "Cache-Enhanced Dynamic Movement-Based Location Management Schemes for 3G Cellular Networks," Krishna Priya Patury, **completed** in July 2003.
31. "An Improved Dynamic Database Location Management Scheme for PCS Networks," A. Gudipati, **completed** in February 2003.
32. "An Improved Movement-Based Location Management Scheme for PCS Networks," Lei Li, **completed** in November 2002.
33. "Improving WEP Security in 802.11 Wireless Networks," Chaitanya Bandela, **completed** in November 2002.
34. "Improved Ant Colony Algorithms for Multicasting Problem in WDM Networks," Aiguo Du, **completed** in November 2002.
35. "A Study of Overflow Replacement Policies for Location Management in Mobile Networks," Ying Luo, **completed** in July 2002.
36. "Efficient Algorithms for GEN_BLOCK Redistribution in HPF-2," (Co-Advisor) Hui Wang, **completed** in July 2002.
37. "Simulation of Channel Assignment Algorithms in Wireless Networks," (M.S. Project), Xiannong Fu, **completed** in August 2002.
38. "Credit Card Fraud Detection using Granular Neural Network and its Parallel Implementation," (Co-Advisor), Mubeena H. Syeda, **completed** in December 2001.
39. "Neural Network Solution to Network Routing," V. Krishnamoorthy, **completed** in October 2001.
40. "Routing and Scheduling in Optical Multistage Interconnection Networks using Simulated Annealing Algorithms," Ajay K. Katangur, **completed** in August 2001.
41. "Routing and Scheduling on Optical Multistage Networks Using Genetic Algorithms," Chunyan Ji, **completed** in May 2001.
42. "An Information Management System For University International Office," by Yunchang Li, **completed** in August 1999.
43. "Logical Identities Applied to Knowledge Discovery in Databases," by Tony Zhang, **completed** in Dec. 1999.
44. "Data Warehouse Tools," by Anita Prasad, **completed** in Dec. 1999.
45. "Visual Point of Sale System," by Chien-ming Kuo, **completed** in 1999.
46. "ACA - Automated Conversion Application," by Massae Kiytiro-Keane, **completed** in 1999.
47. "UNIX System Administration Tools," by Joyce .B. Ciccolella, **completed** in 1998.

48. "Client-Server System" by Ligong Zhu, completed in 1998.
49. "A Parallel Genetic Algorithm for Task Scheduling" by Michael Bohler, completed in 1998.
50. "Internet Relay Chat Client with GUI" by Harimohan S. Bawa, completed in 1998.
51. "Simulation of ATM Delta Switch Using Self-Similar Traffic," by Rammohan Chitimilla, completed in 1998.
52. "List Scheduling and User Interface in Visual C++" by Ravi Madugala, completed in February 1996.
53. "Design and Implementation of Scheduling Domains in AI Planning System" by Huikang Shi, completed June 1995.
54. "Overview of AI Planning Systems and Their Potential Use in Scheduling" by Srinivasa Satrasala, completed in February 1995.

PhD COMMITTEE MEMBER/REVIEWER

1. "Bayesian Methods in Brain Connectivity Change Point Detection with EEG Data and Genetic Algorithm," by Bing Liu, completed in Fall 2017.
2. "Privacy Preserving High Performance Data Mining on Horizontally Partitioned Data," by Yunmei Lu, completed in Summer of 2015.
3. Machine Learning Approaches for Genotype-Phenotype Prediction and featured Drug Resistant Mutants retrieval," Xiaxia Yu, Spring 2014.
4. "Simulation Software as a Service and Service-Oriented Simulation Experiment" by Song Guo, Department of Computer Science, Georgia State University, completed in Summer 2012.
5. "Inferring Genomic Sequences" by Irina Astrovskaya, Department of Computer Science, Georgia State University, completed in Summer 2011.
6. "Energy-Efficient Data Management in Wireless Sensor Networks" by Chunyu Ai, Department of Computer Science, Georgia State University, completed in Summer 2010.
7. "High Performance Simulation of DEVS based Large Scale Cellular Space Models" by Yi Sun, Department of Computer Science, Georgia State University, completed in Summer 2009.
8. "Efficient Molecular Dynamics Simulation on Reconfigurable Models with MultiGrid Method," by Eunjung Cho, Department of Computer Science, Georgia State University, completed in Spring 2008.
9. "A Novel Quartet-Based Method for Inferring Evolutionary Trees from Molecular Data" Monther Tarawneh, School of Information Technology, University of Sydney, completed in Fall 2007.
10. "Discrete algorithms for analysis of genotype data," by Dumitru Brinza, Department of Computer Science, Georgia State University, completed in Summer 2007.
11. "IEEE 802.15.4 MAC Protocol Study and Improvement," Liang Chen, Department of Computer Science, Georgia State University, completed in Summer 2007.

12. "Contour based 3D Biological Image Recognition and Partial Retrieval," by Yong Li, Department of Computer Science, Georgia State University, completed in Summer 2007.
13. "Service Integration and Authentication in WLAN/Cellular Networks" by Minghui Shi, Department of Electrical and Computer Engineering, University of Waterloo, Canada, completed in Fall 2006.
14. "Distributed Web Service Coordination for Collaborative Applications and Biological Workflows," by Janaka Balasooriya, Department of Computer Science, Georgia State University, completed in Fall 2006.
15. "Algorithms for computational genetics epidemiology," by Jingwu He, Department of Computer Science, Georgia State University, completed in Fall 2006.
16. "CAD Tools for DNA Micro-Array Design, Manufacture and Application," by Nisar Hundewale, Department of Computer Science, Georgia State University, completed in Fall 2006.
17. "Effective Techniques for Gene Expression Data Mining," by Ma Chi Hung, The Hong Kong Polytechnic University, completed in summer of 2006.
18. "SVM-based negative data mining to binary classification," by Fuhua Jiang, Department of Computer Science, Georgia State University, completed in Summer 2006.
19. "A study of the quality of service in group oriented mobile transactions," by Punit Ahluwalia, Department of Computer Information Systems, Georgia State University, completed in Summer 2005.
20. "Efficient Table Lookup Algorithms for the Next Generation IP Networks," by Zhen Xu, Carleton University, Canada, January 2005.
21. "Application of Fast and Robust Equalization in Communication Technology," by Hua Ye, School of Computing and Mathematics, Deakin University, Australia, completed in October 2003.
22. "Some topic in Intelligent Agents and Security," by Ramdane Issolah, Department of Computer Science, Georgia State University, graduation date unknown.
23. "Some Topic in Graphics and Visualization," by Anthony S. Aquilio, Department of Computer Science, Georgia State University, graduation date unknown.
24. "Quality-based content delivery in internet," by Li Xiang, Dept of Computer Science, National University of Singapore, Singapore, 2003.
25. "Design and Performance Evaluation of QoS-Oriented Wireless Networks," Alisha Malloy, Department of Computer Information Systems, Georgia State University, completed in July 2002.
26. "Efficient Computation of Replacement Shortest Paths and its Applications," by Sven Venema, School of Computing and Information Technology, Griffith University, Australia, completed in March 2002.
27. "Fault Tolerant Models and Fault Tolerant Routing Algorithms in Hypercube Networks with Large Number of Faulty Nodes," by an anonymous PhD student, Department of Computer Science, Central South University, China, completed in March 2002.
28. "Building Reliable Distributed Systems," Wanlei Zhou, Doctor of Science of Deakin University, Australia, completed in December 2001.

29. "A Reactive System Model for Building Fault-Tolerant Distributed Applications" by Changgui Chen, School of Computing and Mathematics, Deakin University, Australia, completed in July 2001.
30. "Wavelength Division Multiplexed (WDM) Fiber Optic Computer Communication Networks" by Mohammad F. Alam, Electro-Optics Program, University of Dayton, completed in 2000.
31. "Java-Based Heterogeneous Distributed Programming Framework" by Nenad Stankovic, Department of Computing, Macquarie University, Australia, completed in 2000.
32. "A Toolkit for Constructing Service Replication Systems" by Li Wang, School of Computing and Mathematics, Deakin University, Australia, completed in October 1999.
33. "The Reconfigurable Mesh: Programming Model, Self-Simulation, Adaptability, Optimality, and Applications" by Manzur Murshed, Department of Computer Science, Australian National University, completed in August 1999.
34. "Enhanced Artificial Neural Network Performance Using Multidimensional Complex Numbers" by Howard Michel, Department of Computer Science and Engineering, Wright State University, completed in May 1999.

M.S. COMMITTEE MEMBER/REVIEWER

1. "Simulating a Pipelined Reconfigurable Mesh on a Linear Array with a Reconfigurable Pipelined Bus system," by Mathura Gopalan, completed in summer 2005.
2. "Image Compression Using Bidirectional DCT," by Imran Faridi, completed in Spring 2005.
3. "Wavelet Neural Network-based Audio Compression," by Huaxin Johnny Ye, completed in Fall 2004.
4. "The Relative Importance of Input Encoding and Learning Methodology on Protein Secondary Structure Prediction," by Arnshea Clayton, completed in Fall 2004.
5. "Using Multiple GPUs in Parallel to Achieve Performance Gains on a Single CPU System," by Robert Gulde, completed in Summer 2004.
6. "An Alternative Location Registration Schema for Load-Balancing in a Mobile Network," by Don C. Harris II, completed in Spring 2004.
7. "Space domain fault resilient routing in ad hoc wireless networks," by Venkata Suresh Tamminedi, completed in Nov. 2003.
8. "Co-existence issues between Bluetooth and 802.11b networks," by Nimarta Arora, completed in Nov. 2003.
9. "Balancing power in consumption in AODV wireless networks," by Bo Hyun Yu, completed in Nov. 2003.
10. "SOAP-JDBC: a bridge between heterogeneous clients and data sources," by Swetha Desetty, completed in Nov. 2003.
11. "Distributed algorithms for ad hoc wireless networks," by Chintan Shah, completed in Nov. 2003.

12. "Constraint based collaborative web services: a framework," by Arthi Hariharan, completed in Nov. 2003.
13. "Prediction of secondary structure of protein using neural networks," by Preeti Singh, completed in August 2003.
14. "Dynamic Power Assignment in Static Ad Hoc Networks," by Omar B. Mbowe, completed in July 2003.
15. "Power Efficient Monitoring Schedules in Sensor Networks," by Fujun Xu, completed in July 2003.
16. "An Enhanced DSR Routing Protocol for Wireless Ad Hoc Network," by Lixuan Ma, completed in July 2003.
17. "Bypassing Misbehaving Nodes in Ad Hoc Wireless Networks by Using A Time Domain Approach," by Dongqing Yuan, completed in July 2003.
18. "Prediction of Secondary Structure of Protein Using Neural Networks," by Preeti Singh, M.S. Project, completed in August 2003.
19. "A Distributed Listener Module for System of Mobile Devices", by Bing Liu, M.S. Thesis, completed in June 2003.
20. "Health Level 7 (HL7) Compliant Clinical Document Editor," by Jagbir S. Hooda M.S. Thesis, completed in June 2003.
21. "Implementation and Analysis of a Parallel Simulated Annealing Algorithm for Molecular Modeling," by Shuai Liu, M.S. Thesis, completed in April 2003.
22. "Implementation of Parallel Simulation Algorithms Using Parallel Heap," by Ziyong Cao, M.S. Thesis, completed in March 2002.
23. "A Greedy Search Algorithm for Adaptive QMF Coefficients," by Qin Wang, M.S. Thesis, completed on July 15, 2002.
24. "Personal Stock Portfolio Management System on iPAQ," by Jingwu He, M.S. Project, completed in May 2002.
25. "Smart agent for the wireless applications," by Hang Shi, M.S. Thesis, completed in November 2002.
26. "Ant Colony on Arrays with Reconfigurable Optical Buses," by Van L. Searcy, M.S. Thesis, completed in November 2002.
27. "Web Clipping Application Agents for Wireless Palms VII," by Juanfang Lei, M.S. Thesis, completed in October 2001.
28. "Transaction Management in a Replicated and Mobile Environment," by Jenny Zhong, School of Computing and Mathematics, Deakin University, Australia, M.S. Thesis, completed in 1999.

PAPERS AND TALKS RELATED TO TEACHING

- Zhongli Ding, Michael Weeks, Yanqing Zhang, and Yi Pan, "Integrating Security Education into a CS Curriculum - practices and experience," The 2016 ASEE Annual Conference, June 26-29, 2016, New Orleans, LA, USA (poster presentation).
- M. Weeks, Yi Pan, and Y. Zhang, "Increasing Security Awareness in Undergraduate Courses with Labware," Proceedings of the 47th ACM Technical Symposium on Computing Science Education (SIGCSE '16), Feb. 2016, Memphis, TN, pp. 687-687.
- Z. Ding, M. Weeks, Y. Zhang, and Yi Pan, "New Mobile Security Labware based on Voice Recognition and Cloud Servers," 19th Colloquium for Information Systems Security education, June 15-17, 2015, Las Vegas, USA (Round table presentation).
- W. Wang, C. Wang, L. Xie, W. Song and Yi Pan, "Security Education for Smart Grid: Materials, Experiments, and Evaluation," 19th Colloquium for Information Systems Security education, June 15-17, 2015, Las Vegas, USA (Oral Presentation).
- K. Qian, D. Lo, M. Guo, Yi Pan, Y. Zhang, X. Hu, and L. Hong, "Android-based Hands-on Labware for Computing Education," Computer Education Journal, No. 11, pp. 72-75, June 2012.
- Kai Qian, Chia-Tien Dan Lo, Yi Pan, Yanqing Zhang, Xiaolin Hu, Liang Hong: Real-World Relevant Learning with Android Smartphones. ICALT 2012: 476-477.
- Yi Pan, "Experience in Teaching Parallel Computing at UD," A talk given at the Ohio College Educators in Parallel Processing meeting, Ohio Supercomputing Center, Columbus, Ohio, May 17, 1996.
- Yi Pan, "Teaching Parallel Programming Using Both High-Level and Low-Level Languages," A Talk given in the Workshop on Education in Computational Sciences of the 2002 International Conference on Computational Science, Amsterdam, the Netherlands, April 21 – 24, 2002.
- Yi Pan, "Teaching Parallel Programming Using Both High-Level and Low-Level Languages," Lecture Notes in Computer Science, Vol. 2331, Springer-Verlag, April 2002, pp. 888-897.
- Yi Pan, "An Innovative Course in Parallel Computing," Journal of SMET Education: Innovations and Research, Vol. 4, No. 3&4, July-December 2003.

UNIVERSITY COMMITTEE SERVICES

- **Georgia State University (2000-present)**
 - Chair, GSU OII China Task Force Committee (2012-present).
 - The University System of Georgia Committee on Computing Disciplines (2008-present).
 - Greater North Fulton Chamber of Commerce Work Force Development Subcommittee: IT Partnership (2015-present).
 - GSU MBD Program Advisory Committee Member (2015-present).
 - Strategic Plan Research Working Group of GSU College of Arts and Science (2017).
 - GSU Life Sciences Strategic Review Panel Committee (2012).

- GSU Promotion and Tenure Manual Committee (2011-2012).
- Member of Search Committee for Dean of Arts and Sciences (2010-2011).
- University Senator (2003-2009).
- Member of University Senator Research Committee (2008-2009).
- Member of University Senator Planning and Development Committee (2005-2008).
- Chair of University Senator Information Systems and Technology (IS&T) Committee (2005-2006).
- Chair of IS&T Student Tech Fee Sub-Committee (2006).
- Member of Information Technology Steering Group (2005-2007).
- Ad Hoc Research and Scholarly Misconduct Investigatory Committee (2005-2006).
- Member of University Senator Information Systems and Technology (IS&T) Committee (2003-2005, 2006-present).
- Member of Classroom Facilities Council (2005-2006)
- College Promotion and Tenure Committee (2004-2005).
- University Committee on Minority Mentoring (2004-2005).
- Provost's University Strategic Planning Committee (2004).
- Senator Library Advisory Committee (SLAC) (2004 - 2005)
- Member of University IS&T Data Warehouse Subcommittee (2003).
- Member of Student Tech Fee Committee (2004 - present).
- Member of Executive Committee for University Biomedical Computing Center, (2003 - present).
- Member of Scientific Review Committee for University Biomedical Computing Center, (2003 - present).
- Member of University Internal Grants Program Faculty Peer Review Committee, 2003-2005.
- Member of University Instructional Innovation Review Committee (2003).
- Member of GSU Grid Computing Group (2003-present).
- Member of Campus Wide Advisory Committee on GSTEP (Georgia State Test of English Proficiency), 2001.
- Member of APACE Ad hoc Subcommittee on Language Proficiency Screening for Non Native English-Speaking TAs (2001-2002).
- Chair of Faculty Search Committee (2002-2004).
- Member of Pre-Tenure Review Committee for Dr. Dogdu (2004).
- Chair of Ph.D. Qualifying Exam Subcommittee on Architectures (2001-2004).
- Member of Departmental Executive Committee (elected) (2001-2004).
- Member of Ad Hoc Committee on Testing Protocols in CS (2003).
- Member of Ad Hoc Committee on Learning Outcomes in CS (2002-2003).
- Member of Ad Hoc Advisory Committee on BS Requirements (2002).
- Member of Ad Hoc Committee on Compensation Review (2001).
- Member of Faculty Search Committee (2000-2002).

- Member of Graduate Committee (2000-present).
- Member of Ph.D. Qualifying Exam Subcommittee on Algorithms (2001-2003).
- Member of Colloquium Committee (2000-2002).
- Member of Honors Program and Honors at Graduation Committee (2000-2002).
- **University of Dayton (1991-2000)**
 - Member of College's Scholarship Award Sub-Committee, 2000.
 - Co-Director of Graduate Studies in Computer Science, 1997-2000.
 - Member of Departmental Student Appeal Committee, 2000.
 - Chair of Departmental Promotion and Tenure Committee, 1999-2000.
 - Member of Departmental Promotion and Tenure Committee, 1998-1999.
 - Member of Colloquium Series Committee, 1999-2000.
 - Member of Departmental Sabbatical Leave Review Committee, 1998-2000.
 - Member of Faculty Search Committee, 1993-1995, 1997, 1999.
 - Computer Science Representative of MIS Curriculum Committee, 1997-2000.
 - Member of CSAB Recommendation Committee, 1995.
 - Coordinator for CPS132, 1993-2000.
 - Judge for the Design Deficiency Contest, 1992.

EXTERNAL ASSESSOR/REVIEWER FOR GRANT AGENCIES

- Served as a panelist/reviewer for the National Science Foundation (NSF) (2002 - present).
- Served as an external referee for the Natural Sciences and Engineering Research Council of Canada (NSERC).
- Served as an expert assessor for the Australian Research Council (ARC).
- Served as an oversea assessor for research proposals for the Hong Kong Research Grants Council (RGC) (2000 - present).
- Served as a reviewer for research proposals for the US-Israel Binational Science Foundation.
- Served as an external referee for the University of Missouri Research Board Grant Systems.
- Served as an oversea assessor for the Research Council of the City University of Hong Kong.
- Served as an out-of-state expert for Louisiana Board of Regents Support Fund Research and Development program.
- Served as an external referee for research proposals for Ohio Supercomputing Center.

EXTERNAL REVIEWER FOR PROMOTION AND/OR TENURE APPLICATIONS

- University of Hawaii, 2017.
- University of Connecticut, 2017.
- Wright State University, 2017
- University of North Texas, 2017.
- University of Central Florida, 2017.
- Hong Kong Polytechnic University, 2016.
- Chinese University of Hong Kong, 2016.
- City University of Hong Kong, 2015.
- University of Sydney, Australia, 2015
- Simon Fraser University, Canada, 2015
- UNC at Charlotte, 2015
- University of Fordham, 2014.
- University of Connecticut, 2014.
- Baylor University, 2014.
- City University of Hong Kong, 2014.
- University of Macau, 2014,
- Honk Kong Polytechnic University, 2014.
- Temple University, 2013,
- City University of Hong Kong, 2013.
- Huazhong University of Science and Technology, 2013.
- Deakin University, Australia, 2013.
- Cleveland State University, 2013.
- Jordan University of Science and Technology, 2013.
- Cleveland State University, 2012.
- University of Colorado at Colorado Springs, 2012.
- East Stroudsburg University of Pennsylvania, 2012.
- Deakin University, Australia, 2012

- University of Arkansas at Little Rock, 2012
- University of Louisiana at Lafayette, 2012
- University of Mississippi, 2011.
- University of Alabama, 2011.
- Hong Kong Baptist University, 2010.
- Southern Illinois University, Carbondale, 2010.
- Brigham Young University , 2010.
- Deakin University, Australia, 2009.
- The Hong Kong Polytechnic University, 2009.
- University of Nevada, Las Vegas, 2009.
- University of Colorado at Colorado Springs, 2008
- University of Louisiana, 2007.
- Wright State University, 2007.
- Nanyang Technological University, 2007.
- The University of Sydney, Australia, 2007.
- Southern Illinois University at Carbondale, 2007.
- Virginia Commonwealth University, 2007.
- The American University in Cairo, 2006.
- Texas Tech University, 2006.
- University of Alberta, 2006.
- Wayne State University, 2005.
- University of Toledo, 2005.
- Universiti Sains Malaysia (USM), Malaysia, 2005.
- Queen's University, Canada, 2005.
- Indiana University-Purdue University Indianapolis, 2005.
- University of Nebraska at Lincoln, 2005.
- University of Alabama, 2004.
- Southern Illinois University at Carbondale, 2004.
- Texas State University, 2004.

- Wayne State University, 2003.
- University of New Mexico, 2002.
- University of North Texas, 2002.
- Japan Advanced Institute of Science and Technology, 2002.
- University of Missouri at Columbia, 2002.
- Western Oregon University, 2002.
- University of Texas at Dallas, 1998.
- Colorado School of Mines, 1998.
- Western Oregon University, 1997.
- Southwest Missouri State University, 1996.

REVIEWER FOR PAPERS, BOOKS AND OTHERS

- Reviewed book proposals and books for McGraw-Hill Publishing, Kluwer Academic Publishers, Prentice Hall, World Scientific Publishers, and John Wiley & Sons.
- Reviewed over a few hundred of papers for more than 30 international journals and numerous international conferences.

CONFERENCE CHAIR

- General Chair, 19th International Conference on Algorithms and Architectures for Parallel Processing, Melbourne, Australia, 9-11 Dec 2019.
- General Chair, 2019 World Cybermatics Congress, July 14-17, 2019, Atlanta, USA.
- Steering Committee Chair, 15th International Symposium on Bioinformatics Research and Applications (ISBRA), Technical University of Catalonia, Barcelona, Spain June 3-6, 2019.
- General Chair, The 2019 World Congress on Information Technology Applications and Services, February 11-13, 2019, Jeju, Korea.
- Steering Committee Chair, 14th International Symposium on Bioinformatics Research and Applications (ISBRA), Institute of Computing Technology, Chinese Academy of Sciences Beijing, China, June 8-11, 2018.
- General Co-Chair, 9th EAI International Conference on Big Data Technologies and Applications, September 4-5, 2018, Exeter, Great Britain.
- Program Co-Chair, The 18th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT17) Taipei Taiwan, December 18-20, 2017.

- General Conference Co-Chair, The Fifth International Conference on Advanced Cloud and Big Data, August 13-16, 2017, Shanghai, China.
- Panel Chair, The 37th IEEE International Conference on Distributed Computing Systems (ICDCS 2017), Atlanta, USA, June 5-8, 2017.
- Steering Committee Chair, The 13th International Symposium on Bioinformatics Research and Applications (ISBRA 2017), May 29-June 2, 2017, Honolulu, USA.
- General Chair, The 11st KIPS International Conference on Ubiquitous Information Technologies and Applications (CUTE 2016), Dec. 19 - 21, 2016, Bangkok, Thailand.
- General Chair, The 6th IEEE International Conference on Big Data and Cloud Computing (BDCloud 2016) October 8-10, 2016, Atlanta, GA, USA.
- TPC Meeting Arrangements Chair, IEEE INFOCOM 2016, April 10-15, 2016, San Francisco, CA, USA.
- General Co-Chair, 5th IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCABS), October 15-17, 2015, Sofitel Luxury Hotels, Miami, FL, USA
- Panel Co-chair, The 40th IEEE Computer Society International Conference on Computers, Software and Applications Atlanta, Georgia, USA, June 10-14, 2016.
- General Co-Chair, The Third International Conference on Advanced Cloud and Big Data (CBD 2015), Oct. 30-Nov. 1, 2015, Yangzhou, Jiangsu, China.
- General Co-Chair, The Second International Conference on Advanced Cloud and Big Data (CBD 2014), November 20-22, Huangshan, Anhui, China.
- Program Co-Chair, The 10th International Symposium on Bioinformatics Research and Applications (ISBRA2014), June 28-30, Zhangjiajie, China.
- General Co-Chair, 2nd International IBM Cloud Academy Conference (ICA CON 2014), May 8-9, 2014, Georgia State University, Atlanta, Georgia USA.
- General Co-Chair, The 2013 IEEE/WIC/ACM International Conference on Intelligent Agent Technology, Atlanta, GA, Nov. 17-20, 2013.
- General Co-Chair, The 2013 IEEE/WIC/ACM International Conference on Web Intelligence, Atlanta, GA, Nov. 17-20, 2013.
- General Chair, The 5th IEEE International Conference on Awareness Science and Technology, Aizu-Wakamatsu, Japan, November 2-4, 2013.
- General Co-Chair, The 4th FTRA International Conference on Computer Science and its Applications, Keju, Korea, Nov. 22-25, 2012.
- Steering Committee Co-Chair, The 11th International Conference on Algorithms and Architectures for Parallel Processing, Melbourne, Australia, Oct. 24-26, 2011.
- General Co-Chair, 2011 IEEE International Conference on Bioinformatics & Biomedicine, Atlanta, USA, Nov. 12-15, 2011.

- Steering Committee Co-Chair, 2011 International Symposium on Bioinformatics Research and Applications, Changsha, China, May 27-29, 2011.
- Steering Committee Co-Chair, 2009 International Symposium on Bioinformatics Research and Applications, Storrs, Connecticut, May 23-26, 2010.
- General Chair, The 3rd International Conference on Information Science and Engineering, Sept. 29-Oct. 1, 2011, Yangzhou, China.
- General Co-Chair, The 9th International Conference on Grid and Cloud Computing, Nov. 1-5, 2010, Nanjing, China.
- General Chair, The 2nd International Conference on Information Science and Engineering, Dec. 4-6, 2010, Hangzhou, China.
- Steering Committee Co-Chair, The 9th International Conference on Algorithms and Architectures for Parallel Processing, Busan, Korea, May 21-23, 2010.
- Steering Committee Co-Chair, 2009 International Symposium on Bioinformatics Research and Applications, GSU, Atlanta, USA, May 13-16, 2009.
- General Co-Chair, The 8th International Conference on Algorithms and Architectures for Parallel Processing, Cyprus, June 9-11, 2008.
- General Co-Chair, 2008 International Symposium on Bioinformatics Research and Applications, GSU, Atlanta, USA, May 7-10, 2008.
- General Co-Chair, 2007 International Workshop on High Performance Data Mining and Applications, Nanjing, China, May 22-25, 2007.
- Program Co-Chair, The 5th International Bioinformatics Workshop, June 24-26, 2007, Weihai, P.R. China.
- General Co-Chair, The 7th International Conference on Algorithms and Architectures for Parallel Processing, Hangzhou, China, June 11-14, 2007.
- General Co-Chair, 2006 IEEE International Conference on Granular Computing, GSU, Atlanta, USA, May 10-12, 2006.
- Program Co-Chair, IFIP Conference on Biologically Inspired Cooperative Computing, Santiago, Chile, August 20-25, 2006.
- General Co-Chair, The 2nd IEEE International Symposium on Dependable Autonomic and Secure Computing (DASC'06), Indianapolis, USA, September 29-October 1, 2006.
- Workshop Co-Chair, International Workshop on Bioinformatics Research and Applications, University of Reading, UK, May 28-31, 2006.
- Program Co-Chair, Third International Symposium on Parallel and Distributed Processing and Applications (ISPA '05), Nanjing, China, Nov. 2-5, 2005.
- Workshop Co-Chair, Second SECABC Fall Workshop on Biocomputing, GSU, Atlanta, Oct. 27, 2005.

- Program Co-Chair, 2005 International Workshop on Bioinformatics Research and Applications, Emory University Atlanta, USA, May 22-25, 2005.
- Publicity Co-Chair, the 16th IEEE International Parallel and Distributed Processing Symposium (IPDPS '05), Denver, USA, April 4-8, 2005.
- Program Co-Chair, The 3rd International Conference on Grid and Cooperative Computing, Wuhan, China, Oct. 21-25, 2004.
- Steering Committee Chair, The 6th Workshop on High Performance Scientific and Engineering Computing, Montreal, Canada, Aug. 15-18, 2004.
- Steering Committee Chair, The 5th Workshop on Parallel and Distributed Scientific and Engineering Computing Santa Fe, New Mexico, April 26-30, 2004.
- Publicity Co-Chair, the 15th IEEE International Parallel and Distributed Processing Symposium (IPDPS '04), Santa Fe, New Mexico, USA, April 2004.
- Co-Chair, IEEE Symposium on Data Base Management in Wireless Network Environments at IEEE Semiannual Vehicular Technology Conference, October 4-9, 2003, Orlando, Florida, USA.
- General Co-Chair, The 5th Workshop on High Performance Scientific and Engineering Computing with Applications, Kaohsiung, Taiwan, ROC, October 6-9, 2003
- General Co-Chair, The 4th IEEE Workshop on Parallel and Distributed Scientific and Engineering Computing with Applications, Nice, France, April 22-26, 2003.
- Co-Chair, The 4th IEEE Workshop on High Performance Scientific and Engineering Computing with Applications, Vancouver, British Columbia, Canada, August 18-21, 2002.
- Co-Chair, The 3rd IEEE Workshop on High Performance Scientific and Engineering Computing with Applications, Valencia, Spain, September 2-7, 2001.
- Co-Chair, The 2nd IEEE Workshop on Parallel and Distributed Scientific and Engineering Computing with Applications, San Francisco, April 23-27, 2001.
- Co-Chair, IEEE Workshop on High Performance Scientific and Engineering Computing with Applications, Toronto, Canada, August 21-24, 2000.
- Conference Co-Chair, 11th International Conference on Parallel and Distributed Computing and Systems, MIT, MA, Nov. 3-6, 1999.
- Program Chair, 3rd IPPS Workshop on Optics and Computer Science, San Juan, Puerto Rico, April 12 - 16, 1999.
- Program Chair, 10th International Conference on Parallel and Distributed Computing and Systems, Las Vegas, Nevada, October 28-31, 1998.
- Conference Co-Chair, Fourth International Conference on Computer Science & Informatics, Research Triangle Park, North Carolina, October 23-28, 1998.
- Program Vice Chair, 9th International Conference on Parallel and Distributed Computing and Systems, Washington, D.C., October 13-16, 1997.

- Publicity Chair, 3rd International Conference on Parallel and Distributed Processing Techniques and Applications, Las Vegas, June 30-July 2, 1997.
- Publicity Chair, 1997 International Conference on Imaging Science, Systems, and Technology, Las Vegas, June 30-July 2, 1997.

CONFERENCE STEERING AND ADVISORY COMMITTEE

- FutureTech 2018, April 23-25, 2018, Salerno, Italy.
- FutureTech 2017, May 22-24, 2017, Seoul, Korea.
- FutureTech 2015, May 18-20, 2015, Hanoi, Vietnam.
- The IEEE 21th International Conference on Advanced Information Networking and Applications Niagara Falls, Canada, May 21-23, 2007.
- The IEEE 20th International Conference on Advanced Information Networking and Applications April 18-20, 2006, Vienna, Austria.
- The 19th International Conference on Advanced Information Networking and Applications (AINA 2005), Tamkang University, Taiwan, March 28 - March 30, 2005.
- Second International Symposium on Parallel and Distributed Processing and Applications (ISPA '04) Hong Kong, China, Dec. 13-15, 2004.
- The 18th International Conference on Advanced Information Networking and Applications (AINA 2004), Fukuoka, Japan, March 29 - March 31, 2004.
- Fourteenth IASTED International Conference Parallel and Distributed Computing and Systems (PDCS 2002) Cambridge, MA, Nov. 4-6, 2002.
- 2nd IEEE International Symposium on Information Technology: Coding and Computing, Las Vegas, Nevada, April 2-4, 2001.
- Thirteenth IASTED International Conference Parallel and Distributed Computing and Systems (PDCS 2001) August 21-24, 2001 Anaheim, USA
- IEEE International Symposium on Information Technology: Coding and Computing, Las Vegas, Nevada, March 27-29, 2000.
- 5th IPDPS Workshop on Optics and Computer Science, Cancun, Mexico, May 1-5, 2000.
- Twelfth IASTED International Conference Parallel and Distributed Computing and Systems (PDCS 2000), Nov. 2000, Las Vegas, USA
- International Conference on Communications in Computing, Las Vegas, June 26-29, 2000.

CONFERENCE SESSION CHAIR

- Session on "Communication," the 2003 International Conference on Parallel and Distributed Computing, Applications and Technologies, Chengdu, China, August 27-29, 2003.
- Session on "Performance Enhancement and Evaluation," 2003 IEEE Workshop on Mobile and Wireless Networks, May 19, 2003.
- Session on "Parallel Algorithms," 2001 International Conference on Parallel Processing, Valencia, Spain, September 2-7, 2001.
- Session on "Parallel Architecture and Parallel I/O Systems", The 4th IEEE International Conference on Algorithms and Architectures for Parallel Processing, Hong Kong, December 11-13, 2000.
- Session on "Computing on Bus-Based Architectures", 3rd International Conference on Parallel and Distributed Processing Techniques and Applications, Las Vegas, June 30-July 2, 1997.
- Session on "Parallel and Distributed Computing", IEEE National Aerospace and Electronics Conference, Dayton, Ohio, July 14-18, 1997.
- Session on "Computing on Bus-Based Architectures", 2nd International Conference on Parallel and Distributed Processing Techniques and Applications, Sunnyvale, California, August 9-11, 1996.
- Chair, Session on "Performance and Operating Systems", 1992 International Conference on Parallel Processing, St. Charles, IL, August 17-21, 1992.
- Chair, Session on "Scientific Computing", Fifth International conference on Parallel and Distributed Computing and Systems, October 1992.
- Chair, Session on "Networks", 1993 ACM Symposium on Applied Computing, February 1993.

CONFERENCE COMMITTEE MEMBER

- IEEE INFOCOM, The Annual IEEE International Conference on Computer Communications, 2011-2018.
- The 16th IEEE International Parallel and Distributed Processing Symposium (IPDPS '05), Denver, USA, April 4-8, 2005.
- 3rd International Workshop on Mobile Distributed Computing (MDC'05), Columbus, Ohio, USA, June 5-10, 2005.
- 40th Annual IEEE International Conference on Communications (ICC) Symposium on Next Generation Networks for Universal Services, Seoul, Korea, 16-20 May 2005.
- The 2004 International Conference on Parallel Processing (ICPP '04), Montreal, Canada, August 15-18, 2004.
- The First International Conference on Embedded Software and System December 9-10, 2004, Zhejiang University, Hangzhou, P. R. China.

- International Symposium on Computational and Information Sciences, December 16 - 18, 2004, Shanghai, China.
- International Conference on Bioinformatics and its Applications (ICBA '04), December 16-19, 2004, Nova Southeastern University, Fort Lauderdale, Florida, USA.
- First Biotechnology and Bioinformatics Symposium: A Community and Academic Forum (BIOT-04), September 24, 2004, Colorado Springs, Colorado, USA.
- IFIP International Conference on Network and Parallel Computing (NPC 2004), Wuhan, China, Oct. 18-20, 2004.
- The 4th International Conference on Computer and Information Technology, Wuhan, China, 14-16 September 2004.
- 7th International Workshop on High Performance and Distributed Mining, Lake Buena Vista, Florida, April 2004.
- The 1st IEEE International Conference on Mobile Ad-hoc and Sensor Systems, October 24-27, 2004, Fort Lauderdale, Florida, USA.
- 17th ISCA International Conference on Parallel and Distributed Computing Systems PDCS-2004 San Francisco, CA, USA, September 15-17, 2004.
- The 15th IEEE International Parallel and Distributed Processing Symposium (IPDPS '04), Santa Fe, New Mexico, USA, April 2004.
- The 23rd Annual Joint Conference of the IEEE Computer and Communications Societies (IEEE INFOCOM '04), Hong Kong, March 7-11, 2004.
- 2003 IEEE Global Communications Conference (Globecom '03), San Francisco, CA, USA, December 1-5, 2003.
- The second International Workshop on Grid and Cooperative Computing (GCC'03), Shanghai, P.R. China, December 7-10, 2003.
- 2003 IEEE International Conference on Communications (ICC '03), 11-15 May, 2003, Anchorage, AK, USA.
- The 2nd International Conference on Web-based Learning (ICWL 2003), August 18-20, 2003, Melbourne, Australia.
- 16th ISCA International Conference on Parallel and Distributed Computing Systems, August 13-15, 2003, Atlantis Hotel, Reno, Nevada, USA.
- 5th Workshop on Advances in Parallel and Distributed Computational Models, to be held in conjunction with International Parallel and Distributed Processing Symposium April 22-26 April, 2003.
- 2003 IEEE Workshop on Mobile and Wireless Networks, to be held in conjunction with the 23rd International Conference on Distributed Computing Systems, May 19-22, 2003, Providence, Rhode Island, USA.

- IASTED International Conference on Wireless and Optical Communications, July 14-16, 2003, Banff, Canada.
- 36th Annual Simulation Symposium, Orlando, Florida, March 30 - April 2, 2003.
- 2002 International Workshop on Grid and Cooperative Computing (GCC 2002), December 26-28, 2002, Hainan, China.
- International Symposium on Cyber Worlds: Theories and Practices, November 6-8, 2002, Tokyo, Japan.
- 5th International Workshop on High Performance Data Mining: Resource and Location Aware Mining, April, 2002, Washington, USA.
- The Third International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT'02), 4-6 September 2002 - Kanazawa Bunka Hall, Kanazawa, Japan.
- The 5th IEEE International Conference on Algorithms & Architectures for Parallel Processing, Beijing, China, 23-25 October 2002.
- IASTED International Conference on Wireless and Optical Communications, July 17-19, 2002, Banff, Canada.
- 4th IEEE Workshop on Advances in Parallel and Distributed Computational Models, April 15-19, 2002, Fort Lauderdale, Florida.
- The 16th Annual International Symposium on High Performance Computing Systems and Applications June 17-19, 2002, Moncton, New-Brunswick, Canada.
- Third International Conference on Communications in Computing, June 24 - 27, 2002, Las Vegas, Nevada, USA.
- 35th Annual Simulation Symposium San Diego, California, April 14-18, 2002.
- Tenth ACM International Conference on Information and Knowledge Management, Atlanta, Georgia, November 5-10, 2001.
- 30th Annual Conference International Conference on Parallel Processing, Valencia, Spain, September 3-7, 2001.
- ICPP Workshop on Wireless Networks and Mobile Computing, Valencia, Spain, September 3-7, 2001.
- 2001 International Conference on Parallel And Distributed Systems, KyongJu City, Korea, June. 26-29, 2001.
- Second International Conference on Parallel and Distributed Computing, Applications and Technologies, Taipei, Taiwan, July 9-11, 2001.
- The 2001 IEEE International Workshop on Cluster Infrastructure for Web Server and E-Commerce Applications, May 16 - 18, 2001, Brisbane, Australia.
- Second International Conference on Communications in Computing, June 25-28, 2001, Monte Carlo Resort, Las Vegas, Nevada, USA.

- 3th IEEE Workshop on Advances in Parallel and Distributed Computational Models, San Francisco, USA, April 23, 2001.
- 4th IEEE International Workshop on Parallel and Distributed Data Mining, San Francisco, USA, April 23, 2001.
- The 34th Annual Simulation Symposium, Seattle, Washington, April 22-26, 2001.
- The 4th IEEE International Conference on Algorithms and Architectures for Parallel Processing, Hong Kong, December 11-13, 2000.
- 2000 IEEE International Symposium on Parallel Architectures, Algorithms and Networks (I-SPAN), Dallas/Richardson, Texas, December 7-9, 2000.
- 2000 International Conference on Information Society in the 21st Century: Emerging Technologies and New Challenges, Aizu-Wakamatsu City, Fukushima, Japan, November 5-8, 2000.
- The Seventh IEEE International Conference on Parallel and Distributed System, Iwate Prefectural University, Iwate, Japan, July 4-7, 2000.
- SPIE Conference on Parallel and Distributed Methods for Image Processing IV (AM205), San Diego, California, July 30-August 4, 2000.
- First International Conference on Parallel and Distributed Computing, Applications and Technologies, Hong Kong, May 22-24, 2000.
- The Fourth IEEE International Conference/Exhibition on High Performance Computing in Asia-Pacific Region, May 14-17, 2000, Beijing, China.
- The First IEEE International Symposium on Information Technology: Coding and Computing, March 27-29, 2000, Las Vegas, Nevada.
- 1999 IEEE Workshop on Advances in Parallel Computing Models, June 23-25, 1999, Perth, Australia.
- 12th ISCA International Conference on Parallel and Distributed Computing Systems, Fort Lauderdale, Florida, August 17-20, 1999.
- Conference on Parallel and Distributed Methods for Image Processing III, Colorado Convention Center, Denver, Colorado, 18-23 July 1999.
- 1999 International Conference on Young Computer Scientists, Nanjing, China, August 1999.
- 1999 International Conference on Parallel and Distributed Processing Techniques and Applications, June 28 - July 1, 1999, Las Vegas, Nevada, USA.
- 1999 International Conference on Imaging Science, Systems, and Technology, June 28 - July 1, 1999, Las Vegas, Nevada, USA.
- 1999 Asia Pacific Web Conference, Hong Kong, Sept. 27-29, 1999.
- 2nd International Conference on Parallel and Distributed Computing and Networks, Brisbane, Australia, December 16-18, 1998.

- Seventh International Conference on Computer Communications and Networks, Lafayette, Louisiana, October 12-15, 1998.
- 1998 Asia Pacific Web Conference, Sept. 27-30, 1998, Beijing, China.
- 4th International Conference on Parallel and Distributed Processing Techniques and Applications, Las Vegas, NE, July 13-16, 1998.
- Conference on Parallel and Distributed Methods for Image Processing II, San Diego, CA, July 19-24, 1998.
- 3rd International Conference on Parallel and Distributed Processing Techniques and Applications, Las Vegas, NE, June 30-July 2, 1997.
- 1st International Conference on Imaging Science, Systems, and Technology (CISST '97) , Las Vegas, Nevada, June 30 - July 2, 1997.
- The 11th Annual International Symposium on High Performance Computing Systems, Winnipeg, Manitoba, July 10-12, 1997.
- 8th International Conference on Parallel and Distributed Computing and Systems, Chicago, Illinois, October 16-19, 1996.
- 2nd International Conference on Parallel and Distributed Processing Techniques and Applications, Sunnyvale, California, August 9-11, 1996.
- Ohio Symposium on Advances in Information, Science and Technology, Dayton, Ohio, May 1995.

PANEL CHAIR AND PANELIST

- Chair of panel on "What makes Grids a real advancement?" International Workshop on Grid and Cooperative Computing, Sanya, China, December 27, 2002.
- Member of panel on "Run-time Reconfiguration: Hurdles and Promises," 7th Reconfigurable Architectures Workshop (RAW 2000), May 1, 2000, Cancun, Mexico.

OTHER PROFESSIONAL SERVICES

- Secretary of the IEEE Computer Society Dayton Chapter, 1996-1997.
- Executive Committee Member of IEEE Computer Society Technical Committee on Scalable Computing (2004-2005).
- Advisory Committee Member of IEEE Task Force on Cluster Computing (1999-2004).
- Chairman of the IEEE Computer Society Student Chapter at University of Pittsburgh, 1990.
- Vice President of the Computer Science Department Chapter of the Graduate Student Organization at the University of Pittsburgh, 1989-1990.
- President of the Computer Science Department Chapter of the Graduate Student Organization at the University of Pittsburgh, 1990-1991.

COMMUNITY SERVICE

- Fulton County Office of Workforce Development IT Partnerships Subcommittee, 2015-present.
- President of Tsinghua Alumni Association in Georgia, 2002-2003.
- Vice Principal of Greater Dayton Chinese Language School, 1995-1996.
- Trustee Member of Dayton Association of Chinese Americans, 1992-1995.

MEMBERSHIPS

- Senior Member of the IEEE and Member of the IEEE Computer Society.
- Member of the IEEE Technical Committee on Distributed Processing.
- Member of the IEEE Technical Committee on Parallel Processing.
- Member of the IEEE Technical Committee on Computer Architecture.
- Member of the IEEE Technical Committee on Simulation.
- Biographical profile listed in the 24th edition of Marquis' *Who's Who in the Midwest USA*.
- Biographical profile listed in the 56th edition of Marquis' *Who's Who in America*.
- Biographical profile listed in the 6th edition of Marquis' *Who's Who in American Education*.
- Biographical profile listed in the 1st edition of Saxe-Coburg's *Who's Who in Computational Science and Engineering*.
- Biographical profile listed in Asian American Net's *Who's Who of Asian Americans*.
- Biographical profile listed in the 16th edition of International Biographical Center's *Men of Achievement*.

