

CURRICULUM VITAE

Giannong CAO

WORK ADDRESS: Department of Computing, The Hong Kong Polytechnic University
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PRESENT POSITION: Dean of Graduate School
Otto Poon Charitable Foundation Professor in Data Science
Chair Professor of Distributed and Mobile Computing
Director of Research Institute for Artificial Intelligence of Things
Director of Internet and Mobile Computing Lab
Associate Director of University Research Facility in Big Data Analytics
Hong Kong Polytechnic University

EDUCATION AND QUALIFICATIONS

Doctor of Philosophy (Ph.D.) (08/1986 - 05/1990)	Department of Computer Science, Washington State University, Pullman, WA 99164, U.S.A.
Master of Science (M.Sc.) (02/1984 - 05/1986)	Department of Computer Science, Washington State University, Pullman, WA 99164, U.S.A.
Bachelor of Science (B.Sc.) (01/1978 - 01/1982)	Department of Computer Science, Nanjing University, Nanjing, China

EMPLOYMENT HISTORY

May 2021 -	Dean, Graduate School, Director, Research Institute for Artificial Intelligence of Things, Hong Kong Polytechnic University
July 2020 -	Otto Poon Charitable Foundation Professor in Data Science, Associate Director, University Research Facility in Big Data Analytics, Hong Kong Polytechnic University
July 2017 -	Chair Professor, Department of Computing, Director, University Research Facility in Big Data Analytics, Hong Kong Polytechnic University
April 2011 – June 2017	Chair Professor and Head, Department of Computing, Hong Kong Polytechnic University
July 2010 – March 2011	Professor and Interim Head, Department of Computing, Hong Kong Polytechnic University
July 1997 – June 2010	Assistant / Associate / Professor, Department of Computing, Hong Kong Polytechnic University
July 1995 – June 1997	Assistant Professor, Department of Computer Science, City University of Hong Kong,
June 1993 – June 1995	University Lecturer, Department of Computer Science, University of Adelaide, Australia

June 1990 – May 1993 University Lecturer, Department of Computer Science, James Cook University, Australia

ADJUNCT POSITIONS

May 2020 – April 2021 Visiting Professor, University of Tokyo, Japan
April 2018 – Mar. 2021 Visiting Professor, National Institute of Informatics, Japan
Sept. 2014 – Aug. 2017 Guest Professor, Sun Yat-Sen University, Guangzhou, China
Nov. 2012 – Nov. 2015 Guest Professor, Shenzhen University, Shenzhen, China
Dec. 2010 – Dec. 2013 Guest Professor, Shanghai Jiaotong University, Shanghai, China
Mar. 2010 – Mar. 2013 Adjunct Chair Professor & Ph.D supervisor, Central South University, Changsha, China (Hunan “Furong Scholar” Chair Professor)
Dec. 2010 – Jan. 2011 JPSP Visiting Fellow, University of Tsukuba, Japan
Nov. 2009 – Nov. 2014 Guest Professor, Northeastern University, Shenyang, China
July 2007 – July 2009 Guest Professor, Beijing Jiaotong University, Beijing, China
July 2006 – Aug. 2006 Overseas Scholar, Peking University
July 2004 – Aug. 2004 Visiting Scholar, Institute of Software, Chinese Academy of Sciences
July 2003 – Aug. 2003 Visiting Fellow, Nanyang Technologic University, Singapore
July 2000 – July 2002 Visiting Research Professor, Nanjing University, Nanjing, China
Aug. 1999 – Sept. 1999 Visiting Fellow, Macquarie University, Australia

AWARDS AND RECOGNITION

1. Gold Medal: 2021 China (Shanghai) International Innovation and Invention Exhibition for ITF project “BigARM: Big Data-driven Airport Resource Management Engine and Application Tools”, April 2021.
2. Gold Medal: 2021 China (Shanghai) International Innovation and Invention Exhibition for the system of “Low-cost Acoustic-based Liquid Fraud Detection” supported by RIF project, April 2021.
3. Silver Medal: 2021 China (Shanghai) International Innovation and Invention Exhibition for the system of “Autonomous Cooperative Multi-robot System: A Fully Distributed Approach”, April 2021.
4. IEEE Computer Society Technical Committee in Cloud Computing Research Innovation Award (2020)
5. Member, Academia Europaea (2020)
6. Distinguished Member, China Computer Federation (CCF) (2020)
7. Distinguished Speaker, China Computer Federation (2019)
8. Best Journal Paper Award: IEEE Transactions on Industrial Informatics. (IEEE TII’ 2018)
9. Ministry of Education Higher Education Outstanding Scientific Research Output Awards – Natural Science Award (Second Class), 2018.
10. Distinguished Member, ACM (2017) for scientific contributions to computing
11. Overseas Outstanding Contribution Award, China Computer Federation (2017)
12. Fellow, IEEE (Computer Society) (2014) for contributions to distributed computing in mobile wireless networks
13. President’s Award for Excellent Performance/ Achievement in Research and Scholarly Activities, The Hong Kong Polytechnic University. 2009.

14. Research Grant Achievement Award, Faculty of Engineering, The Hong Kong Polytechnic University. 2017, 2013, 2012, 2008, 2006, 2003.
15. Best Paper Awards: IEEE 4th Int'l Conference on Data Science and Advanced Analytics (DSAA'2017)
16. Best Paper Award: IEEE 2nd Int'l Conference on Smart Computing (SMARTCOMP'2016)
17. Best Paper Award: IEEE/IFIP Int'l Conferences on Ubiquitous Intelligence & Computing (EUC'2016, 2008, 2006)
18. Best Paper Award: IEEE 11th IEEE Int'l Symposium on Parallel and Distributed Processing with Applications (ISPA'2013)
19. Best Paper Award: IEEE 2011 Wireless Communication and Networking Conference (WCNC'2011)
20. Best Paper Award: 2009 Int'l Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP'2009)
21. Hong Kong ICT Awards 2013: Best Innovation & Research - Certificate of Merit, Best Innovation & Research - Special Mention (Social Responsibility) for project "A Practical Wireless Structural Health Monitoring System using Intelligent Sensor Network".
22. Bronze Medal: Brussels Innova 2009 for ITF project "HAWK: Heterogeneous Advanced Wireless Networks", "HAWK: Heterogeneous Advanced Wireless Networks"
23. Second Class Award, 2006 National Science and Technology Progress Award, "Coordination in Object-Oriented and Agent-Oriented Software Systems: Technology, Platform, and Applications", J-220-2-14. 2006. (as team member with Nanjing University)
24. Second Class Award, 2006 State Science and Technology Progress Award (2006 年度国家科学技术进步二等奖), "Coordination in Object-Oriented and Agent-Oriented Software Systems: Technology, Platform, and Applications (对象化与主体化的软件协同技术、平台与应用)", J-220-2-14. 2006. (team with Nanjing University)
25. 2005 CVIC SE Software Talent Award (中创软件人才奖) (awarded by CVIC SE - Largest Software Company in China, recognized by Chinese Ministry of Science and Technology 国家科技部认可的国家级奖). 2005.
26. China Computer Federation and IEEE Computer Society Outstanding ard (for service to International Conference on Computer Networks and Mobile Computing - ICCNMC'2005). 2005.
27. First Class Award, 2003 Ministry of Education Nominated State Science and Technology Award (2003 年度教育部提名国家科学技术一等奖), "Object-orientation and Mobile Agent Technology (面向對象與移動 Agent 技術研究)" (team with Nanjing University)

ADVISORY / ACADEMIC COMMITTEES

Dec 2020 –	Member of technology committee of Hong Kong Industrial AI and Robotics Centre, InnoHK
July 2020 –	Member of Governance Board of AMTD FinTech Centre of Faculty of Business, PolyU
April 2019 –	Member of Expert Committee and Distinguished Research Fellow, Hangzhou Institute of Advanced Technology (中科杭州先进技术研究院)
Aug 2018 – July 2020	Member of Admission Panel of the Technology Business Incubation Programmes of the Hong Kong Science and Technology Parks Corporation (HKSTP) (香港科技园公司)
Aug 2018 –	Member of Executive Committee, Research Institute for Sustainable Urban Development (RISUD), PolyU (香港理工大學可持續城市發展研究院)
May 2018 –	Entrepreneurship Advisor, HK A.I. Lab (香港人工智慧實驗室創業大講堂導師)

- April 2018 – Honorary Advisor, Hong Kong Society for Rehabilitation (HKSR – 香港復康會名譽顧問)
- Mar. 2018 – Member, Academic Committee, Zhejiang Lab (浙江之江實驗室學術諮詢委員會委員)
- May 2017 – Member, Expert Committee, Guangdong – Hong Kong – Macau Joint Laboratory for Machine Intelligence and Big Data, South China University of Technology, Guangzhou, China (华南理工大学智能机器人与大数据粤港澳联合实验室专家委员会委员)
- Jan. 2015 – Dec. 2020 Member, Information Technology Subgroup, HK Innovation and Technology Fund Research Projects Assessment Panel, Innovation and Technology Commission (香港創新科技署創新及科技基金研究項目評審委員會資訊科技組別委員)
- May 2016 – Member, Academic Advisory Committee, College of Information Science and Technology, Jinan University, Guangzhou, China (广州暨南大学信息科学技术学院学术委员会委员)
- May 2016 – Member, Academic Advisory Committee, Guizhou Province Key Laboratory for Electric Power Big Data, Guizhou Institute of Technology, Guizhou, China (贵州省电力大数据重点实验室学术委员会委员)
- Sept. 2015 – July 2017 Director, PolyU – Microsoft Smart Computing Laboratory (香港理工大學 – 微軟(HK)智慧計算實驗室主任)
- Aug. 2014 – July 2016 Member, Steering Committee on Enriched IT Programme in Secondary Schools (SCITP), Office of the Government Chief Information Officer (OGCIO) (香港政府資訊科技總監辦公室中學資訊科技增潤計劃督導委員會委員)
- Aug. 2014 – Member, Admission Panel, Incu-Tech Business Incubation Programme, Hong Kong Science and Technology Parks Corporation (香港科技園科技創業培育計劃技術諮詢委員會委員)
- July 2014 – Member, Accreditation Committee for Computer Science Programmes, Accreditation Board, Hong Kong Institution of Engineers (香港工程師學會計算機科學課程評審事務委員會委員)
- Mar. 2014 – June 2017 Director, Ministry of Education Key Laboratory of Machine Intelligence and Advanced Computing The Hong Kong Polytechnic University Branch (机器智能与先进计算教育部重点实验室香港理工大学分实验室主任)
- Feb. 2014 – Member, Academic Advisory Committee, Institute of Advanced Computing and Digital Engineering (IACDE), Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences (中国科学院深圳先进技术研究院先进计算与数字工程研究所学术委员会委员)
- Jan. 2014 – Member, Academic Committee, State Key Laboratory for Novel Software Technology at Nanjing University (南京大学计算机软件新技术国家重点实验室学术委员会委员)
- Jan. 2013 – Leader, Research Group for Urban Big Data Computing and Wireless Networking, Division of Smart Cities, Research Institute for Sustainable Urban Development (RISUD), Hong Kong Polytechnic University (香港理工大學可持續城市發展研究院智慧城市分部城市大數據計算和無線網絡研究小組組長)
- Nov. 2011 – Oct. 2016 Member, Engineering Panel, Hong Kong Research Grant Council (香港研究資助局工程學學科小組委員)

Jan. 2010 – July 2017	Honorary Advisor, Hong Kong Community & Construction Professionals' Development Centre (CCPDC) (香港社區、建造及工程專業發展中心榮譽顧問)
July 2009 –	Member, Panel of Outstanding Experts, Shanghai Jiao Tong University (for long-term comprehensive evaluation of academic departments) (上海交通大學傑出專家組委員)
July 2008 – June 2010	Honorary Advisor, Hong Kong Joint School Electronics and Computer Society (HKJSECS) (香港聯校電子及電腦學會榮譽顧問)

PROFESSIONAL COMMITTEES

1. Chair, IEEE Technical Committee on Distributed Processing (TCDP) (06/2012-05/2014)
2. Overseas Director, China Computer Federation (CCF) (2020 –)
3. Co-Chair, Community Dev/Outreach, IEEE Blockchain Steering Committee (2018 -)
4. Co-chair, Award Committee, IEEE Technical Committee on Distributed Processing (2017/18)
5. Member, IEEE Fellows Evaluation Committee of the Computer Society (2015 – 2017)
6. Member, IEEE Fellows Evaluation Committee of Reliability Society (2017 – 2019)
7. Member, IEEE Communications Society Awards Committee (2017 – 2019)
8. Member, IEEE Computer Society Education Awards Selection Committee (2016 –)
9. Member, Steering Committee of IEEE Transactions on Mobile Computing ((2017 –)
10. Member, IEEE Technical Committee on Distributed Computing
11. Member, IEEE Technical Committee on Parallel Processing
12. Member, IEEE Technical Committee on Fault Tolerant Computing
13. Member, IEEE Computational Intelligence Society (CIS) Smart World Technical Committee
14. Member, ACM SIG-MOBILE
15. Member, ACM SIG-OS
16. Vice Chairman and Member, CCF Technical Committee of Computer Architecture (2004-2007)
17. Executive Member, CCF Technical Committee of Pervasive Computing
18. Member, CCF Technical Committee of System Software

PROFESSIONAL ACTIVITIES

Journal Editorship

1. Associate Editor: *IEEE Transactions on Computers* (2020 – ; 2013 – 2017)
2. Associate Editor: *ACM Computing Surveys* (2020 –)
3. Associate Editor: *ACM Transactions on Cyber-Physical Systems* (2019 –)
4. Associate Editor: *IEEE Transactions on Big Data* (2018 –)
5. Editorial Board: *ACM Transactions on Intelligent Systems and Technology* (2018 –)
6. Editorial Board: *IEEE Internet of Things Journal* (2018 –)
7. Associate Editor: *ACM Transactions on Sensor Networks* (2014 –)
8. Associate Editor: *IEEE Transactions on Cloud Computing* (2016 –)
9. Technical Editor: *IEEE Network* (2012 –)

10. Area Editor: *Computer Communications Journal*, Elsevier B.V. (2015 –)
11. Associate Editor: *Chinese Journal of Electronics* (2015 –)
12. Associate Editor: *IEEE Transactions on Parallel and Distributed Systems* (2010 – 2014)
13. Associate Editor: *Journal of Ambient Intelligence and Humanized Computing*, Springer. (2010 – 2018)
14. Associate Editor: *Int'l Journal of Peer-to-Peer Networking and Applications*, Springer. (2008 –)
15. Area Editor: *Pervasive and Mobile Computing Journal*, Elsevier B.V. (2005 –)
16. Editorial Board: Science China: Information Science 《中国科学: 信息科学》(2017 –)
17. Editorial Board: CCF Transactions on Networking (2016 –)
18. Editorial Board, International Journal of Distributed Sensor Networks, Hindawi. (2015 –)
19. Editorial Board, Journal of Sensors, Hindawi. (2015 - 2016)
20. Editorial Board, International Journal of Big Data Intelligence, Inderscience Publishers. (2013 –)
21. Editorial Board, Computational Social Networks, Springer. (2013 –)
22. Editorial Board, International Journal of Cloud Computing, New York, USA. (2013 –)
23. Editorial Board, Lecture Notes of ICST (LNICST), ICST and Springer. (2009 –)
24. Editorial Board, Journal of Computer Science and Technology, Springer (2008 –)
25. Editorial board, Multiagent and Grid Systems, IOS Press, Netherlands. (2006 –)
26. Editorial Board, Journal of Embedded Computing (JEC), Cambridge International Science Publishing, UK. (2005 – 2011)
27. Editorial board, Journal of Ubiquitous Computing and Intelligence (JUCI), American Scientific Publishers, USA. (2005 – 2011)
28. Editorial board, International Journal of Computational Science and Engineering (IJCSSE), Inderscience Publishers, Switzerland. (2005 – 2011)
29. Editorial board, International Journal of Wireless and Mobile Computing (IJWMC), Inderscience Publishers, Switzerland. (2004 – 2010)
30. Editorial board, International Journal of Parallel, Emergent, and Distributed Systems (IJPEDS; Formerly Parallel Algorithms and Application), Taylor & Francis, Switzerland. (2006 – 2010)
31. Editorial board, International Journal of High Performance Computing and Networking (IJHPCN), Inderscience Publishers, Switzerland. (2004-2009)
32. Editorial board: International Journal of Computers and Applications (IJCA), ACTA Press / IASTED, Canada. (2003 – 2007)
33. Guest Editor, Special Issue on Security and Reliability in Cloud of Things, International Journal of Information Security, Springer. 2017.
34. Guest Editor, Special Issue on Transparent Computing, Peer-to-Peer Networking and Applications, Springer. 2016.
35. Guest Editor, Special Issue on Emergence and Trend on Pervasive and Mobile Cloud Computing, Pervasive and Mobile Computing Journal, Elsevier B.V. 2016.
36. Lead Guest Editor, Special Issue, Journal of Sensors, 2015.
37. Guest Editor, Special Issue, Pervasive and Mobile Computing Journal, Elsevier B.V. 2014.
38. Co-Guest Editor, Special Issue on Internet of Things, Pervasive and Mobile Computing Journal, Elsevier B.V. 2013.
39. Co-Guest Editor, Special Issue on Design, Implementation, and Evaluation of Wireless Sensor Network Systems, EURASIP Journal on Wireless Communications and Networking, 2011.

40. Co-Guest Editor, Special Issue on Mobile Applications: Status and Trends, *Journal of Systems and Software*, 82 (2011).
41. Co-Guest Editor, Special Issue on Mobile Peer-to-Peer Networking and Computing, *Journal of Peer-to-Peer Networking and Applications*, 2008.
42. Co-Guest Editor, Fast Track on Mobile and Sensor Networks, *Journal of Pervasive and Mobile Computing*, 2007.
43. Co-Guest Editor, Special Issue on Advances in Ubiquitous Networking and Intelligent Systems, *Journal of Ubiquitous Computing and Intelligence*, 2007.
44. Co-Guest Editor, Special Issue on Parallel and Distributed Processing and Applications, *Journal of Supercomputing*, 2006.
45. Associated Guest Editor, Special Issue on Hardware/Software Support for High Performance Scientific and Engineering Computing of *IEICE Transactions on Information and Systems*, July 2004.

Conference Organization

- Steering Committee Co-Chair: *IEEE SMARTCOMP*, *IEEE MSN*
 - Steering Committee Member: *IEEE INFOCOM (2014 – 2016)*, *ACM/IEEE IoTDI*, *IEEE TrustCom*
 - Honorary TPC Chair, *IEEE Mobile Cloud 2019: The Seventh IEEE International Conference on Mobile Cloud Computing, Services, and Engineering*. San Francisco East Bay, California, USA. April, 4-9, 2019.
 - General Chair/Co-Chair: *ICPADS'2020*, *OPODIS'2018*, *SRDS'2017*, *ICPADS'2017*, *COCOON'2017*, *CloudCom'2017*, *IOV'2017*, *UMedia'2017*, *PCC'2017*, *SMARTCOM'2017*, *MASS'2016*, *Mobiware'2016*, *INFOCOM'2015*, *ICMU'2015*, *ICDCN'2012*, *GPC'2012*, *APSCC 2011*, *EUC'2010*, *ICPADS'2009*, *QShine'2008*, *PERCOM'2008*, *UIC'2007*, *ISPA 2005*
 - Technical Program/Track Chair: *MASS'2020*, *ICDCS'2019*, *COMPSAC'2018*, *Mobile Cloud'2017*, *BDCAT'2017*, *WIMS'2017*, *RAAP'2017*, *IoTDI'2016*, *CloudCom'2016*, *CIT'2016*, *ADHOCNOW'2015*, *IEEE INFOCOM'2014*, *SMARTCOMP'2014*, *IWQoS'2014*, *CCNC'2014*, *ICDCN'2014*, *IEEE Big Data'2013*, *MASS'2009*, *EUC'2009*, *ICPP'2008*, *AINA'2006*, *PRDC'2005*, *EUC 2005*, *ISPA'2004*, *Euro-Par'2004*, *VTC'2013*
 - Member, Organization Committee: *WWW'2020*, *ICDM'2020*, *ICDCN'2020*, *SIGCOMM'2016*, *PERCOM'2015*, *MOBICOM'2015*, *CloudCom'2014*, *PERCOM'2014*, *MASS'2012*, *ICDCS'2012*, *UbiComp 2011*, *DSN'2011*, *UIC'2010*, *TVC'2010-Fall*, *SSS'2009*, *UIC'2008*, *IPDPS'2008*, *DASC'2007*, *PRDC'2006*, *MASS'2006*, *DASC'2006*, *UIC'2006*, *EUC'2006*, *ICPP'2005*, *IWDC'2004*, *I-SPAN'2004*, *PERCOM'2004*, *Cluster'2003*, *WoWMoM'2002*, *ISSRE'2001*, *ICA3PP'2000*, *PRDC'1999*, *ICOIN'1999*
 - Member of Technical Program Committee: *PERCOM*, *INFOCOM*, *WWW*, *AAAI*, *IJCAI*, *ICCPS*, *ICDCS*, *SECON*, *ICDCN*, *OPODIS*, *PIMRC*, *IEEE Big Data*, *IEEE ICPADS*, *ICII*, *IPDPS*, *PDCAT*, *ACM-SAC*, *WCNC*, *ICC*, *GLOBECOM*, *SRDS*, *RTSS*, *MDM*, *ICCVE*, *ICNP*, *ICPADS*, *IC2E*, *MASS*, *ICCP*, *DSN*, *WoWMoM*, *SCC*, *ISPA*, *PRDC*, *HPCC*, *GPC*, *ICCCN*, *GCC*, *EUC*
1. Steering Committee Co-Chair: *IEEE SMARTCOMP*, *IEEE MSN*
 2. Steering Committee Member: *IEEE INFOCOM (2014 – 2016)*, *ACM/IEEE IoTDI*, *IEEE TrustCom*
 3. Program Committee: *IEEE Big Data 2019*, *IEEE International Conference on Big Data 2019*. Los Angeles, CA, USA. Dec 9- 12, 2019.
 4. Track Chair: *IEEE ICDCS 2019*, *International Conference on Distributed Computing Systems 2019*. Texas, USA. July 07- 10, 2019.
 5. Program Committee: *WWW 2019*, *The Web Conference 2019*. San Francisco, CA, USA. May 13- 17, 2019.
 6. Honorary TPC Chair, *IEEE Mobile Cloud 2019: The Seventh IEEE International Conference on Mobile Cloud Computing, Services, and Engineering*. San Francisco East Bay, California, USA. April, 4-9, 2019.

7. General Co-Chair: *IEEE ICOT, International Conference on Orange Technologies 2018*, Bali, Indonesia. October, 23-26, 2018.
8. General Chair: *OPODIS 2018, The 22nd International Conference on Principles of Distributed Systems*, Hong Kong, China, December 17-19, 2018.
9. Program Committee: *IEEE ICPADS 2018, International Conference on Parallel and Distributed Systems*, Sentosa, Singapore, Dec. 11-13, 2018.
10. Program-Co-Chairs-in-Chief (PCIC), *IEEE COMPSAC 2018: The 42nd IEEE Computer Society Signature Conference on Computers, Software and Applications*. Tokyo, Japan. July 23-27, 2018.
11. Keynote Co-Chair, *IEEE SMARTCOMP 2018: The 4th IEEE International Conference on Smart Computing*. Taormina, Sicily, Italy. June 18-20, 2018.
12. Conference Co-Chair, *IEEE ICBDA 2018: The 3rd IEEE International Conference on Big Data Analytics*. Shanghai, China. March 9-12, 2018.
13. General Co-Chair, *IEEE ICPADS 2017: The 23rd IEEE International Conference on Parallel and Distributed Systems*. Shenzhen, China. December 15-17, 2017.
14. General Co-Chair, *IEEE CloudCom 2017: The 9th IEEE International Conference on Cloud Computing Technology and Science*. Hong Kong, China. December 11-14, 2017.
15. General Co-Chair, *ICOT 2017: 2017 International Conference on Orange Technologies*. Singapore. December 8-10, 2017.
16. Program Co-Chair, *IEEE/ACM BDCAT 2017: The 4th IEEE/ACM International Conference on Big Data Computing, Applications and Technologies*. Austin, Texas, USA. December 5-8, 2017.
17. General Co-Chair, *IOV 2017: The 4th International Conference on Internet of Vehicles*. Kanazawa, Japan. November 22-25, 2017.
18. General Co-Chair, *SRDS 2017: The 36th International Symposium on Reliable Distributed Systems*. Hong Kong, China. September 26-29, 2017.
19. General Chair, *COCOON 2017: The 23rd Annual International Computing and Combinatorics Conference*. Hong Kong, China. August 3-5, 2017.
20. General Co-Chair, *U-Media 2017: The 10th International Conference on Ubi-Media Computing and Workshops*. Pattaya, Thailand. August 1-4, 2017.
21. Program Co-Chair, *PCC 2017: The 13th China Pervasive Computing Conference*. Qingdao, China. July 24-26, 2017.
22. Program Co-Chair, *WIMS 2017: The 7th International Conference on Web Intelligence, Mining and Semantics*. Amantea, Italy. June 19-22, 2017.
23. Panel Co-Chair, *IEEE WoWMoM 2017: IEEE International Symposium in a World of Wireless Mobile and Multimedia Networks*. Macau, China. June 12-15, 2017.
24. Program Co-Chair, *PAAP 2017: The 8th International Symposium on Parallel Architectures, Algorithms and Programming*. Haikou, China. June 10-11, 2017.
25. General Co-Chair, *IEEE SMARTCOMP 2017: The 3rd IEEE International Conference on Smart Computing*. Hong Kong, China. May 29-31, 2017.
26. General Co-Chair, *FutureTech 2017: The 12th International Conference on Future Information Technology*. Guilin, China. May 22-24, 2017.
27. Program Co-Chair, *IEEE Mobile Cloud 2017: The 5th IEEE International Conference on Mobile Cloud Computing, Services and Engineering*. San Francisco, USA. April 7-9, 2017.
28. Panel Chair, *IEEE PERCOM 2017: The 15th IEEE International Conference on Pervasive Computing and Communications*. Kona, Big Island, Hawaii, USA. March 13-17, 2017.
29. Special Session Chair, *ICOT 2016: International Conference on Orange Technologies*. Melbourne, Australia. December 17-20, 2016.

30. General Co-Chair, *Mobilware 2016: The 7th International Conference on MOBILE Wireless MiddleWARE, Operating Systems, and Applications*. Naples, Italy. December 13-14, 2016.
31. Track Co-Chair (Track 3: Internet of Things (IoT) and Mobile in the Cloud), *IEEE CloudCom 2016: The 8th IEEE International Conference on Cloud Computing Technology and Science*. Luxembourg. December 12-15, 2016.
32. Program Co-Chair, *IEEE CIT 2016: The 16th IEEE International Conference on Computer and Information Technology*. Fiji. December 8-10, 2016.
33. General Chair, *IEEE MASS 2016: The 13th IEEE International Conference on Mobile Ad hoc and Sensor Systems*. Brasília, Brazil. October 10-13, 2016.
34. Poster and Demo Committee, *ACM SIGCOMM 2016: ACM Special Interest Group on Data Communication*. Florianópolis, Brazil. August 22-26, 2016.
35. General Co-Chair, *CloudCom-Asia 2016: International Conference on Cloud Computing and Big Data*. Hong Kong. June 7-9, 2016.
36. Panel Session Chair on “Research Trend and Challenge in Cloud Computing and Big Data”, *CloudCom-Asia 2016: International Conference on Cloud Computing and Big Data*. Hong Kong. June 7-9, 2016.
37. Program Co-Chair, *IOTDI 2016: IEEE International Conference on IoT Design and Implementation*, co-located with IC2E 2016. Berlin, Germany. April 4-8, 2016.
38. General Co-Chair, *ICOT 2015: International Conference on Orange Technologies*. Hong Kong, China. December 19-22, 2015.
39. Program Committee, *PAAP 2015: The 7th International Symposium on Parallel Architectures, Algorithms and Programming*. Nanjing, China. December 12-14, 2015.
40. Track Co-Chair, *IEEE CloudCom 2015: The 7th IEEE International Conference on Cloud Computing Technology and Science*. Vancouver, Canada. November 30 - December 3, 2015.
41. Student Travel Grant Co-Chair, *ACM MobiCom 2015: ACM/IEEE International Conference on Mobile Computing and Networking*. Paris, France. September 7-11, 2015.
42. TPC Co-Chair, *ADHOCNOW 2015: The 14th International Conference on Ad-Hoc Networks and Wireless*. Athens, Greece. June 26 - July 2, 2015
43. General Chair, *IEEE INFOCOM 2015: The 33rd IEEE Conference on Computer Communications*. Hong Kong, China. April 26 - May 01, 2015.
44. Panel Co-Chair, *IEEE PERCOM 2015: The 13rd Annual IEEE International Conference on Pervasive Computing and Communications*. St. Louis, USA. March 23-27, 2015.
45. General Co-Chair, *ICMU 2015: The 8th International Conference on Mobile Computing and Ubiquitous Networking*. Hakodate City, Hokkaido, Japan. January 20-23, 2015.
46. Track Co-Chair, *IEEE CloudCom 2014: The 6th IEEE International Conference and Workshops on Cloud Computing Technology and Science*. Singapore. December 15-18, 2014.
47. Program Co-Chair, *SMARTCOMP 2014: The 1st International Conference on Smart Computing*. Hong Kong, China. November 3-5, 2014.
48. General Chair, *IWQoS 2014: The 22nd IEEE/ACM International Symposium on Quality of Service*. Hong Kong, China. May 26-27, 2014.
49. Area TPC Chair, *IEEE INFOCOM 2014: The 32nd IEEE Conference on Computer Communications*. Toronto, Canada. April 27 - May 2, 2014.
50. Keynote Chair, *IEEE PERCOM 2014: The 12th Annual IEEE International Conference on Pervasive Computing and Communications*. Budapest, Hungary. March 24-28, 2014.
51. TPC Vice Chair (Wireless Communication and Networks Track), *IEEE CCNC 2014: The 11th Annual IEEE Consumer Communications & Networking Conference*. Las Vegas, USA. January 10-13, 2014.

52. Networking Track Program Committee Co-Chair, *ICDCN 2014: The 15th International Conference on Distributed Computing and Networks*. Coimbatore, India. January 4-7, 2014.
53. General Vice Chair, *IEEE BigData 2013: IEEE International Conference on Big Data*. Sydney, Australia. December 3-5, 2013.
54. Track Co-Chair (Applications Track), *IC3 2013: The 6th International Conference on Contemporary Computing*. Noida, India. August 8-10, 2013.
55. Track Co-Chair, *IEEE CloudCom-2012: The 4th IEEE International Conference on Cloud Computing Technology and Science*. Taipei, Taiwan. December 3-6, 2012.
56. Program Co-Chair, *IEEE AP-CloudCC 2012: The 1st IEEE Asia-Pacific Cloud Computing Congress*. Shenzhen, China. November 7-10, 2012.
57. Workshop Chair, *IEEE MASS 2012: The 9th IEEE International Conference on Mobile Ad hoc and Sensor Systems*. Las Vegas, Nevada, USA. October 8-11, 2012.
58. Workshop Co-Chair, *IEEE ICDCS 2012: The 32nd IEEE International Conference on Distributed Computing Systems*. Macau, China. June 18-21, 2012.
59. General Co-Chair, *GPC 2012: The 7th International Conference on Grid and Pervasive Computing*. Hong Kong, China. May 11-13, 2012.
60. General Co-Chair, *ICDCN 2012: The 13th International Conference on Distributed Computing and Networking*. Hong Kong, China. January 3-6, 2012.
61. General Co-Chair, *IEEE APSCC 2011: The 2011 IEEE Asia-Pacific Services Computing Conference*. Jeju Island, South Korea. December 12-15, 2011.
62. Program Co-Chair, *CSC 2011: 2011 International Conference on Cloud and Service Computing*. Hong Kong, China. December 12-14, 2011.
63. Publicity Co-Chair, *UbiComp 2011: The 13th International Conference on Ubiquitous Computing*. Beijing, China. September 17-21, 2011.
64. Workshop Co-Chair, *IEEE/IFIP DSN 2011: The 41st Annual IEEE/IFIP International Conference on Dependable Systems and Networks*. Hong Kong, China. June 26-29, 2011.
65. Program Chair, *HotP2P 2011: The 8th International Workshop on Hot Topics in Peer-to-Peer Systems (in conjunction with IPDPS 2011)*. Anchorage (Alaska), USA. May 16-20, 2011.
66. General Co-Chair, *IEEE/IFIP EUC 2010: The 8th IEEE/IFIP International Conference on Embedded and Ubiquitous Computing*. Hong Kong, China. December 11-13, 2010.
67. Steering Chair, *MobiCPS 2010: The 1st International Workshop on Mobile Cyber-Physical Systems*. Xian, China. October 26-29, 2010.
68. Award Co-Chair, *UIC 2010: The 7th International Conference on Ubiquitous Intelligence and Computing*. Xian, China. October 26-29, 2010.
69. Program Co-Chair, *DIAMOND 2010: International Workshop on Data Intensive Applications in Mobile and Distributed Environments (in conjunction with ICPP 2010)*. San Diego, CA, USA. September 13-16, 2010.
70. Track Co-Chair, *IEEE TVC 2010-Fall: The 72nd IEEE Vehicular Technology Conference*. Ottawa, Canada. September 6-9, 2010.
71. General Chair, *IEEE ICPADS 2009: The 15th International Conference on Parallel and Distributed Systems*. Shenzhen, China. December 10-11, 2009.
72. General Co-Chair, *MSN 2009: The 5th International Conference on Mobile Ad-hoc and Sensor Networks*. Wuyi Mountain, Fujian, China. December 16-18, 2009.
73. Publicity Co-Chair, *SSS 2009: The 11th International Symposium on Stabilization, Safety, and Security of Distributed Systems*. Lyon, France. November 3-6, 2009.
74. Program Vice Chair, *IEEE MASS 2009: The 6th IEEE International Conference on Mobile Ad-hoc and Sensor Systems*. Macau, China. October 5-8, 2009.

75. Program Vice Chair, *IFIP EUC 2009: The 7th IFIP International Conference on Embedded and Ubiquitous Computing*, Canada. August 29-31 2009.
76. General Co-Chair, *CPI 2009: 2009 International Symposium on Cyber-Physical Intelligence*. Brisbane, Australia. July 7-10, 2009.
77. General Chair, *InfoScale 2009: The 4th International ICST Conference on Scalable Information Systems*. Hong Kong, China. June 10-12, 2009.
78. Program Vice Chair, *IFIP EUC 2008: The 5th IFIP International Conference on Embedded and Ubiquitous Computing*. Shanghai, China. December 17-20, 2008.
79. Program Vice Chair, *ICPP 2008: The 36th International Conference on Parallel Processing*. OR, USA. 2008.
80. General Co-Chair, *QShine 2008: The 5th International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness*. Hong Kong, China. July 2008.
81. Program Co-Chair, *NIMC 2008: 2008 International Conference on Networking, Internet and Mobile Communications*. Glasgow, UK. July 21-24, 2008.
82. Award Co-Chair, *UIC 2008: The 5th International Conference on Ubiquitous Intelligence and Computing*. Oslo, Norway. June 23-25, 2008.
83. Publicity Co-Chair, *IEEE IPDPS 2008: The 22nd IEEE International Parallel and Distributed Processing Symposium*. Florida, USA. April 14-18, 2008.
84. General Vice Chair, *IEEE PERCOM 2008: The 6th Annual IEEE International Conference on Pervasive Computing and Communications*. Hong Kong, China. March 17-21, 2008.
85. General Co-Chair, *MSN 2007: The 3rd International Conference on Mobile Ad-hoc and Sensor Networks*. Beijing, China. December 12-14, 2007.
86. International Liaison Co-Chair, *IEEE DASC 2007: The 3rd IEEE International Symposium on Dependable Autonomic and Secure Computing*. Columbia, MD, USA. September 25-27, 2007.
87. Program Vice Chair - Track of Wireless Networks, and Mobile Communications and Computing, *CODS 2007: 2007 International Conference on Complex Open Distributed Systems*. Chengdu, China. July 22-24, 2007.
88. General Co-Chair, *UIC 2007: The 4th International Conference on Ubiquitous Intelligence and Computing*. Hong Kong, China. July 11-13, 2007.
89. General Co-Chair, *MDC 2007: The 5th International Workshop on Mobile Distributed Computing (in conjunction with IEEE 27th International Conference on Distributed Computing Systems – ICDCS 2007)*. Toronto, Canada. June 25-29, 2007.
90. Publicity Co-Chair, *PRDC 2006: The 12th Pacific Rim International Symposium on Dependable Computing*. Riverside, CA, USA. December 18-20, 2006.
91. Program Co-Chair, *MSN 2006: The 2nd International Conference on Mobile Ad Hoc and Sensor Networks*. Hong Kong, China. December 13-15, 2006.
92. Publicity Co-Chair, *IEEE MASS 2006: The 3rd IEEE International Conference on Mobile Ad-hoc and Sensor Systems*. Vancouver, Canada. October 9-12, 2006.
93. International Liaison Co-Chair, *IEEE DASC 2006: The 2nd IEEE International Symposium on Dependable Autonomic and Secure Computing*. Indianapolis, Indiana, USA. September 29 - October 1, 2006.
94. Panel Chair, *UIC 2006: The 3rd International Conference on Intelligence and Computing*. Wuhan, China. September 3-6, 2005.
95. Program Vice Chair on Mobile Computing, *IFIP EUC 2006: The 3rd IFIP International Conference on Embedded and Ubiquitous Computing*. Seoul, South Korea. August 2006.

96. General Co-Chair, *MDC 2006: The 4th International Workshop on Mobile Distributed Computing* (in conjunction with *7th IEEE International Symposium on A World of Wireless, Mobile and Multimedia Networks - WoWMoM 2006*). Niagara-Falls/Buffalo, NY, USA. June 26, 2006.
97. Program Vice Chair on Pervasive/Ubiquitous Networks and Computing, *IEEE AINA 2006: The 20th IEEE Advanced Information Networking and Applications*. Vienna, Austria. April 18-20, 2006.
98. General Co-Chair, *SNDS 2006: The 2nd International Workshop on Security in Networks and Distributed Systems* (in conjunction with *AINA 2006*). Vienna, Austria. April 18-20, 2006.
99. Publicity Co-Chair, *MSN 2005: 2005 International Conference on Mobile Ad-hoc and Sensor Networks*. Wuhan, China. December 13-15, 2005.
100. Program Co-Chair, *PRDC 2005: The 11th Pacific Rim International Symposium on Dependent Computing*. Changsha, Hunan, China. December 12-14, 2005.
101. Program Vice Chair on Agent and Distributed Computing, *EUC 2005: The 2nd International Conference on Embedded and Ubiquitous Computing*. Nagasaki, Japan. December 6-9, 2005.
102. General Co-Chair, *ISPA 2005: The 3rd International Symposium on Parallel and Distributed Processing and Applications*. Nanjing, China. November 2-5, 2005.
103. Program Co-Chair, *APPT 2005: The 6th International Workshop on Advanced Parallel Processing*. Hong Kong, China. October 2005.
104. Student Workshop Co-Chair, *IEEE ICEBE 2005: 2005 IEEE International Conference on e-Business Engineering*. Beijing, China. October 18-20, 2005.
105. Publication Chair, *ICCNMC 2005: The 3rd International Conference on Computer Networks and Mobile Computing*. Zhangjiajie, China. August 2-4, 2005.
106. Program Co-Chair, *SNDS 2005: The 1st International Workshop on Security in Networks and Distributed Systems* (in conjunction with *11th International Conference on Parallel and Distributed Systems - ICPADS 2005*). Fukuoka, Japan. July 20-22, 2005.
107. International Liaison Co-Chair, *ICPP 2005: The 34th International Conference on Parallel Processing*. Oslo, Norway. June 14-17, 2005.
108. General Co-Chair, *MDC 2005: The 3rd International Workshop on Mobile Distributed Computing* (in conjunction with *IEEE 25th International Conference on Distributed Computing Systems - ICDCS 2005*). Columbus, Ohio, USA. June 6-9, 2005.
109. Program Co-Chair, *MP2P 2005: The 2nd International Workshop on Mobile Peer to Peer Computing* (in conjunction with *IEEE 3rd International Conference on Pervasive Computing and Communications - PerCom 2005*). Kauai Island, Hawaii, USA. March 8-12, 2005.
110. Asia-Pacific Co-ordination Chair, *IWDC 2004: The 6th International Workshop on Distributed Computing*. Kolkata, India. December 27-30, 2004.
111. Program Co-Chair, *ISPA 2004: The 2nd International Symposium on Parallel and Distributed Processing and Applications*. Hong Kong, China. December 13-15, 2004.
112. Vice Chair, Mobile Computing Track, *Euro-Par 2004: 2004 Annual European International Conference on Parallel and Distributed Computing* (sponsored by ACM and IFIP). Pisa, Italy. August 31 - September 3, 2004.
113. Local Arrangement Chair, *I-SPAN 2004: The 7th International Symposium on Parallel Architectures, Algorithms, and Networks*. Hong Kong, China. May 10-12, 2004.
114. Program Chair, *MDC 2004: The 2nd International Workshop on Mobile Distributed Computing* (in conjunction with *IEEE 24th International Conference on Distributed Computing Systems - ICDCS'04*). Tokyo, Japan. March 23-26, 2004.
115. Program Co-Chair, *MP2P 2004: The 1st International Workshop on Mobile Peer to Peer Computing* (in conjunction with *IEEE 2nd International Conference on Pervasive Computing and Communications - PerCom 2004*). Orlando, Florida, USA. March 14-17, 2004.

116. Asia-Pacific Liaison, *IEEE PERCOM 2004: The 2nd IEEE Annual Conference on Pervasive Computing and Communications*. Orlando, Florida, USA. March 14-17, 2004.
117. Publication Chair, *ICBA 2004: The 1st International Conference on Biometrics Authentication*. Hong Kong, China. January 8-10, 2004.
118. Workshops Chair and Session Chair, *IEEE Cluster 2003: The 5th IEEE International Conference on Cluster Computing*. Hong Kong, China. December 1-4, 2003.
119. Symposium Co-Chair, *2003 IEEE Vehicular Technology Conference - Symposium on Database Management in Wireless Network Environments*. Orlando, Florida, USA. October 4-9, 2003.
120. General Co-Chair, *MDC 2003: The 1st International Workshop on Mobile Distributed Computing* (in conjunction with *IEEE 23rd International Conference on Distributed Computing Systems – ICDCS 2003*). Providence, Rhode Island, USA. May 19-22, 2003.
121. Session Chair, *PRDC 2002: The 9th Pacific Rim International Symposium on Dependable Computing*. Tsukuba, Japan. December 2002.
122. Session Chair, *ICA3PP 2002: The 5th International Conference on Algorithms and Architecture for Parallel Processing*. Beijing, China. October 2002.
123. Publicity Co-Chair, *ACM WoWMoM 2002: The 5th ACM International Workshop on Wireless Mobile Multimedia* (in conjunction with *ACM MobiCom 2002*). Atlanta, Georgia, USA. September 28, 2002.
124. Registration Chair and Session Chair, *IEEE ISSRE 2001: The 12th IEEE International Symposium on Software Reliability Engineering*. Hong Kong, China. November 2001.
125. Publicity Co-Chair and Session Chair, *ICA3PP 2000: The 4th International Conference on Algorithms and Architecture for Parallel Processing*. Hong Kong, China. December 2000.
126. Finance Chair and Session Chair, *PRDC 1999: The 6th Pacific Rim International Symposium on Dependable Computing*. Hong Kong, China. December 1999.
127. Session Chair, *ICOIN 1999: The 13th International Conference on Information Networking*. Jeju, South Korea. January 1999.
128. Co-Chair, Special Session on Support for Parallel and Distributed Programming, *1997 International Conference on Parallel and Distributed Computing and Networking*. Singapore. August 1997.

Conference Organization: Technical Committee Members

1. *AAAI: AAAI Conference on Artificial Intelligence* – 2018, 2019
2. *IEEE ICII: International Conference on Industrial Internet* – 2018
3. *WWW: International World Wide Web Conference* – 2018, 2019
4. *IJCAI: International Joint Conference on Artificial Intelligence* – 2018, 2017
5. *IEEE PERCOM: IEEE International Conference on Pervasive Computing and Communication* – 2019, 2018, 2017, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2007, 2006, 2005, 2003
6. *IEEE IoTDI: IEEE International Conference on Internet of Things Design and Implementation* (in conjunction with *CPSWeek*) – 2018, 2017
7. *ICCPS: ACM/IEEE International Conference on Cyber-Physical Systems* (in conjunction with *CPSWeek*) – 2018, 2017, 2015
8. *SEKE: International Conference on Software Engineering and Knowledge Engineering* – 2018, 2017
9. *PerFoT: International Workshop on Pervasive Flow of Things* (in conjunction with *IEEE PERCOM*) – 2018
10. *PerAwareCity: International Workshop on Pervasive Context-Aware Smart Cities and Intelligent Transportation Systems* (in conjunction with *IEEE PERCOM*) – 2018
11. *i-Society: International Conference on Information Society* – 2018, 2017

12. *ICETEAS: International Conference on Emerging Trends in Expert Application and Security* – 2018
13. *ComNet-IoT: International Workshop on Computing and Networking for Internet of Things and beyond* (in connection with *ICDCN*) – 2018, 2017.
14. *ALAP: Distributed Systems and Security Track of the Conference on Algorithms and Applications* – 2018
15. *ICDCS: IEEE International Conference on Distributed Computing Systems* – 2017, 2015, 2014, 2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005
16. *ICDCN: International Conference on Distributed Computing and Networking* – 2017, 2010, 2006
17. *WNM: The International Workshop on Wireless Networks and Multimedia* – 2017
18. *U-Media: International Conference on Ubi-media Computing and Workshops* – 2017, 2010, 2008
19. *SmartSys: IEEE Workshop on Smart Service Systems* (in conjunction with *IEEE SMARTCOMP*) – 2017, 2016
20. *SeMoCloud: The International Workshop on The Security, Privacy, and Digital Forensics of Mobile Cloud* (in conjunction with *IEEE Mobile Cloud*) – 2017
21. *SKG: International Conference on Semantics, Knowledge and Grids* – 2017, 2010, 2009
22. *PerLS: International Workshop on Pervasive Smart Living Spaces* (in conjunction with *IEEE PerCom*) – 2017
23. *PerHealth: IEEE PerCom Workshop on Pervasive Health Technologies* (in conjunction with *IEEE PerCom*) – 2017
24. *PDCO: IEEE Workshop Parallel/Distributed Computing and Optimization* (in conjunction with *IEEE IPDPS*) – 2017
25. *NetSys: The International Conference on Networked Systems* – 2017
26. *MOWU: Symposium on Mobile, Wearable & Ubiquitous Computing* (in conjunction with *COMPSAC*) – 2017
27. *MobiQuitous: International Conference on Mobile and Ubiquitous Systems: Computing, Networks and Services* – 2017, 2016, 2007
28. *MobiArch: Workshop on Mobility in the Evolving Internet Architecture* (in conjunction with *SIGCOMM*) – 2017
29. *MAM: IEEE International Workshop on Mining and Applications on Multimedia* (in conjunction with *IEEE ISM*) – 2017
30. *ISET: International Symposium on Educational Technology* – 2017
31. *IQ2S: International Workshop on Information Quality and Quality of Service for Pervasive Computing* (in conjunction with *IEEE PerCom*) – 2017, 2016
32. *ICSEISA: International Conference on Software Engineering, Information System & Applications* – 2017
33. *ICCC: IEEE International Conference on Cognitive Computing* – 2017
34. *ICC-CISS: IEEE ICC Communication and Information Systems Security Symposium* – 2017, 2016
35. *ICBL: International Conference on Blended Learning* – 2017, 2019
36. *CLOUDTECH: International Conference on Cloud Computing Technologies and Applications* – 2017, 2016, 2015
37. *CLOUD: IEEE International Conference on Cloud Computing* – 2017
38. *BigCom: International Conference on Big Data Computing and Communications* – 2017
39. *AdHoc-Now: International Conference on Ad Hoc Networks and Wireless* – 2017, 2011, 2010, 2009, 2008

40. *ACM-SAC (Reliable Software Technologies and Communication Middleware track): ACM/SIGAPP Symposium on Applied Computing* – 2017
41. *SpaCCS: International Conference on Security, Privacy and Anonymity in Computation, Communication and Storage* – 2016
42. *SMARTCOMP: IEEE International Conference on Smart Computing* – 2016
43. *SECON: IEEE Sensing, Communication and Networking* – 2016
44. *PIMRC: IEEE International Symposium on Personal, Indoor and Mobile Radio Communications: Mobile and Wireless Networks* – 2016, 2010
45. *PDCAT: International Conference on Parallel and Distributed Computing, Applications and Technologies* – 2016.
46. *MobileCloud: IEEE International Conference on Mobile Cloud Computing, Services, and Engineering* – 2016
47. *CloudDP: Workshop on Cloud Data and Platforms* (in conjunction with *EuroSys*) – 2016
48. *CloudCom-Asia: International Conference On Cloud Computing and Big Data* – 2016
49. *CCNC: IEEE Consumer Communications and Networking Conference* – 2016, 2011, 2005
50. *ACM-SAC: ACM/SIGAPP Symposium on Applied Computing* – 2016
51. *WCNC: IEEE Wireless Communications and Networking Conference* – 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008
52. *SSIV: International Workshop on Safety and Security of Intelligent Vehicles* (in conjunction with *IEEE/IFIP DSN*) – 2015
53. *PCO: Workshop on Parallel Computing and Optimization* (in conjunction with *IEEE IPDPS*) – 2015
54. *MOBISPC: International Conference on Mobile Systems and Pervasive Computing* – 2015
55. *MDM: International Conference on Mobile Data Management* – 2015, 2012, 2011, 2010, 2008
56. *IEEE AOC: The 9th Workshop on Autonomic and Opportunistic Communications* – 2015
57. *ICCVE: IEEE International Conference on Connected Vehicles & Expo* – 2015
58. *ICC: IEEE International Conference on Communications* – 2015, 2014, 2013, 2012, 2011, 2009, 2008, 2007
59. *GLOBECOM: IEEE Global Telecommunications Conference* – 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2005
60. *DAIS: IFIP International Conference on Distributed Applications and Interoperable Systems* – 2015
61. *COMPSAC: Annual International Computer, Software & Applications Conference* – 2015
62. *CLOUD: International Conference on Cloud Computing* – 2015, 2011, 2010
63. *SRDS: IEEE International Symposium on Reliable Distributed Systems* – 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2005
64. *IPDPD: IEEE International Parallel & Distributed Processing Symposium* – 2014
65. *IEEE BDSE: IEEE International Conference on Big Data Science and Engineering* – 2013
66. *ICPADS: International Conference on Parallel and Distributed Systems* – 2013, 2006, 2005, 2002
67. *IC2E: IEEE International Conference on Cloud Engineering* – 2013
68. *INFOCOM: IEEE International Conference on Computer Communications* – 2012, 2011
69. *WASA: International Conference on Wireless Algorithms, Systems, and Applications* – 2011, 2010
70. *RTSS: IEEE Real-Time Systems Symposium* – 2011, 2010, 2008
71. *MASS: IEEE International Conference on Mobile Ad-hoc and Sensor Systems* – 2011, 2010, 2007

72. *ICPP: International Conference on Parallel Processing* – 2011, 2010, 2009, 2007, 2006, 2004
73. *ICNP: IEEE International Conference on Network Protocols* – 2011, 2007
74. *DSN: IEEE/IFIP International Conference on Dependable Systems and Networks* – 2011, 2010, 2005
75. *AINA: IEEE International Conference on Advanced Information Networking and Applications* – 2011, 2009, 2008, 2007, 2003
76. *SCC: IEEE International Conference on Services Computing* – 2010, 2009, 2007, 2006, 2005
77. *IWACI: International Workshop on Advanced Computational Intelligence* – 2010
78. *ISPA: International Symposium on Parallel and Distributed Processing with Applications* – 2010, 2007, 2003
79. *ICWUS: International Conference on Wireless and Ubiquitous Systems* – 2010
80. *ICMU: International Conference on Mobile Computing and Ubiquitous Networking* – 2010
81. *IC3: International Conference on Contemporary Computing* – 2010
82. *GrC: IEEE International Conference on Granular Computing* – 2010, 2006
83. *FutureTech: International Conference on Future Information Technology* – 2010
84. *AMT: International Conference on Active Media Technology* – 2010
85. *WoWMoM: IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks* – 2009, 2008, 2007, 2006, 2005
86. *PRDC: International Symposium on Pacific Rim Dependable Computing* – 2009, 2008, 2004
87. *NPC: IFIP International Conference on Network and Parallel Computing* – 2009, 2007, 2005
88. *Mobilware: International Conference on MOBILE Wireless MiddleWARE, Operating Systems, and Applications* – 2009, 2008
89. *ICA3PP: International Conference on Algorithms and Architectures for Parallel Processing* – 2009, 2007, 2005, 2002, 2000
90. *HPCC: IEEE International Conference on High Performance Computing and Communications* – 2009
91. *GPC: International Conference on Grid and Pervasive Computing* – 2009, 2008, 2007, 2006
92. *CHINACOM: International Conference on Communications and Networking in China* – 2009, 2007, 2006
93. *CCGrid: International Symposium on Cluster Computing and the Grid* – 2009, 2008, 2007, 2006
94. *APSCC: IEEE Asia-Pacific Services Computing Conference* – 2009, 2008
95. *PerSeNS: International Workshop on Sensor Networks and Systems for Pervasive Computing* – 2008
96. *Networking: IFIP International Conferences on Networking* – 2008, 2019
97. *ICCCN: IEEE International Conference on Computer Communications and Networks* – 2008, 2007, 2006, 2005
98. *WTASA: International Workshop on Theoretical and Algorithmic Aspects of Sensor and Ad-hoc Networks* – 2007
99. *SOAS: International Conference on Self-Organization and Autonomic Systems in Computing and Communications* – 2007, 2006
100. *PDCN: IASTED International Conference on Parallel and Distributed Computing and Networks* – 2007, 2006, 2005
101. *MPTT: Russian-Taiwan Symposium on Methods and Tools of Parallel Programming for Multicomputers* – 2007
102. *MoMM: International Conference on Advances in Mobile Computing & Multimedia* – 2007, 2006, 2005

103. *IWCMC: International Wireless Communications and Mobile Computing Conference - Mobile Computing Symposium* – 2007, 2006
104. *ISSNIP: International Conference on Intelligent Sensors, Sensor Networks and Information Processing* – 2007
105. *Innovations: International Conference on Innovations in Information Technology* – 2007
106. *INFOSCALE: International Conference on Scalable Information Systems* – 2007
107. *IE: IET International Conference on Intelligent Environments*, Ulm, Germany – 2007, 2006, 2005
108. *GCC: International Conference on Grid and Cooperative Computing* – 2007, 2006, 2005, 2004, 2003
109. *EUC: IFIP International Conference on Embedded and Ubiquitous Computing* – 2007, 2004
110. *CDS: IEEE International Workshop on Cooperative Distributed Systems* – 2007
111. *ARES: International Conference on Availability, Reliability and Security*, Vienna, Austria – 2007, 2006
112. *AMOC: Asian International Conference on Mobile Computing* – 2007
113. *ACM/SIGMOBILE MobiOpp: International Workshop on Mobile Opportunistic Networking* – 2007
114. *WBC: IADIS International Conference on Web Based Communities* – 2006
115. *SAPC: International Workshop on Software and Algorithmic Aspects of Pervasive Computing* – 2006
116. *SPCA: International Symposium on Pervasive Computing and Applications* – 2006
117. *PCC: Chinese Workshop on Pervasive Computing* – 2006
118. *OPODIS: International Conference on Principles of Distributed Systems* – 2006
119. *NCS: IASTED International Conference on Networks and Communication Systems* – 2006
120. *ICITST: International Conference for Internet Technology and Secured Transactions* – 2006
121. *ICCCAS: International Conference on Communications, Circuits and Systems* – 2006
122. *HWN-RMQ: IEEE International Workshop on Heterogeneous Wireless Networks: Resource Management and QoS* – 2006
123. *HiPC: IEEE International Conference on High-Performance Computing* – 2006, 2002
124. *EC: International Workshop on Embedded Computing* – 2006, 2005
125. *APWeb: Asia Pacific Web Conference* – 2006, 2005
126. *USW: International Workshop on Ubiquitous Smart Worlds* – 2005
127. *RTCSA: IEEE International Conference on Embedded and Real-Time Computing Systems and Applications* – 2005
128. *NCUS: IFIP International Symposium on Network-Centric Ubiquitous Systems* – 2005
129. *MultiSec: IEEE International Workshop on Security and Pervasive Multimedia Environments* – 2005
130. *MPPS: Workshop on Mobility in Peer-to-peer Systems* – 2005
131. *MAUSN: International Workshop on Mobile Ad-hoc and Ubiquitous Sensor Networks* – 2005
132. *IWDC: International Workshop on Distributed Computing* – 2005, 2003
133. *ICWL: International Conference on Web-based Learning* – 2005, 2004, 2003, 2002
134. *ICWN: International Conference on Wireless Networks* – 2005
135. *ICMB: IEEE International Conference on Mobile Business* – 2005
136. *ICCESS: International Conference on Embedded Software and Systems* – 2005, 2004
137. *GCA: Workshop on Grid Computing & Applications* – 2005
138. *ACSC: Australasian Computer Science Conference* – 2005, 2004, 2003

139. *MWN: International Workshop on Mobile and Wireless Networking – 2004*
140. *ECS: International Workshop on Embedded Computing Systems – 2004*
141. *AWCC: Advanced Workshop on Content Computing – 2004*
142. *APDCM: Workshop on Advances in Parallel and Distributed Computational Models – 2004, 2003, 2002*
143. *AC: IADIS International Conference on Applied Computing – 2004*
144. *SHPSEC: Workshop on Hardware/Software Support for High Performance Scientific and Engineering – 2003*
145. *APPT: International Workshop on Advanced Parallel Processing Technologies – 2003*
146. *NPDPA: The IASTED International Conference on Networks, Parallel and Distributed Processing and Applications – 2002*
147. *CIC: International Workshop on Cooperative Internet Computing – 2002*
148. *PDPTA: International Conference on Parallel and Distributed Processing Techniques and Applications – 2001, 2000*
149. *IV2001-VmPDP: International Symposium of Visual Methods for Parallel and Distributed Programming – 2001, 2000*
150. *TOOLS ASIA: International Conference on Technology of Object-Oriented Languages and Systems – 1999*
151. *PART: Australian Conference on Parallel and Real-time Systems – 1999*
152. *ISLIP: International Symposium on Languages for Intensional Programming –1999*
153. *ICNCS: International Conference on Networks and Communication Systems – 1998*
154. *International Database Workshop, Hong Kong – 1997, 1996*
155. *ICPDCN: International Conference on Parallel and Distributed Computing and Networking – 1997*

Review for Journals and Conferences

Journals:

ACM Transactions on Internet Technology, IEEE Transactions on Mobile Computing, IEEE Transactions on Parallel and Distributed System, IEEE Transactions on Computers, IEEE Transaction on Knowledge and Data Engineering, IEEE Transactions on Vehicular Technology, IEEE Transactions on Evolutionary Computing, IEEE Transactions on Systems, Man and Cybernetics, Communication of the ACM, Journal of Parallel and Distributed Computing, Theoretical Computer Science, The Computer Journal, Parallel Computing, Algorithmic, Information Processing Letters, Parallel Processing Letters, Journal of Systems and Software, Software: Practice and Experience, Journal of Grid Computing, Journal of System Architecture, International Journal of Foundation of Computer Science, Journal of Information and Software Technology, Pattern Recognition, International Journal of Information Science, International Journal of Computer Systems: Science and Engineering, Decision Support Systems, EURASIP Journal on Wireless Communication and networking.

Conferences:

ICDCS, IPDPS, IEEE PerCom, IEEE INFOCOM, IEEE WCNC, IEEE ICC, IEEE ICCCN, IEEE WoWMoM, IEEE/IFIP DSN, IEEE ISSRE, ICPP, IWDC, I-SPAN, ACSC, MDC, MP2P, EUC, ISPA, APDCM, WNMC, IEEE ICSE, IEEE IV, ICPADS, ICA3PP, PRDC, HPC, ACM SIGSOFT Symposium on the Foundations of Software Engineering.

Review of Research Grant Proposals

I have served as a reviewer of numerous grant proposals including China NSFC Grants, China MOST Grants, Science Foundation Ireland Grant, Swiss National Science Foundation Grant, HK UGC GRF/ECS/CERG Grant, Australia ARC Large Research Grant, University of Macau Multi-Year Research Grant etc.

Review of Research Theses

I have served as a reviewer of over 80 MPhil and Ph.D. theses from universities of Hong Kong, Mainland China, Australia, Singapore, Germany, etc.

Evaluation and Reference of Promotions and Appointments

I have served as a reviewer and reference of applications for promotions and appointments in academic institutes, professional societies and talent programme of different countries / regions, including Mainland China, Hong Kong, USA, UK, Australia, Singapore, Taiwan, Macau etc.

Invited Keynote Speeches / Talks / Panelists

1. Invited talk at HKFAIR 2021, 20 March 2021, Online. (“Future Edge Computing Towards Distributed Intelligence for AIoT Applications”)
2. Invited talk at 5th Asia-Pacific Food Safety International Conference, 27-28 Jan 2021, Online. (“When Food Safety Meets IoT”)
3. Keynote speech at 2020 International Joint Conference of IEEE TrustCom/IEEE BigDataSE/IEEE CSE/IEEE EUC/IEEE iSCI 2020, Dec 2020, Online. (“Edge Computing Current Status, Trend and the Future”)
4. Panelist on “Redefine Smart Home, Smart Office, and Smart City.” at 17th IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS 2020), 10-13 Dec 2020, Online.
5. Keynote speech at 2020 International Conference on Orange Computing (ICOT 20), Nov 2020, Online. (“Edge Computing- Current Status, Trend and the Future”)
6. Invited talk at 2020 內地-香港前沿學科發展論壇: 網絡空間安全的最新進展、挑戰與機遇, 23-24 Oct 2020, Online.
7. Keynote talk at 2020 國際測試委員會區塊鏈大會 (BChain 20), 1-2 Nov 2020, Online.
8. Keynote speech at 2020 Sensors Journal Webinar “Smart Cities of the Future – A Cyber Physical System Perspective”, Sept. 2020, Online. (“Towards Smart Internet of Things”)
9. Invited talk at Frontiers in AI and Robotics 2020, 19-20 July 2020, Online. (“Distributed Intelligence at the Edge”)
10. Panelist at 21st International Conference on Distributed Computing and Networking (ICDCN 2020), 4-7 Jan 2020, Kolkata, India.
11. Panelist at 15th International Conference on Mobile Ad-hoc and Sensor Networks (MSN 2019), 11-13 Dec 2019, Shenzhen, China.
12. Keynote talk at 1st International Conference on Blockchain and Trustworthy Systems (Blocksys 2019), 7-9 Dec 2019, Guangzhou, China. (“High Performance Packing and Searching in Blockchain-based Data Sharing”)
13. Keynote talk at the 16th International Symposium on Pervasive Systems, Algorithms and Networks (I-SPAN 2019), 16-20 Sep 2019, Nipolas, Italy. (“Collaborative Task Execution in Advanced Edge Computing Environments”)
14. Keynote talk at 第八届中国互联网学术年会 (CCF ICoC 2019), 26-27 Aug 2019, Nanjing, China. (“Blockchain-based Big Data Sharing: Opportunities and Challenges”)
15. Keynote talk at the 4th EAI International Conference on Machine Learning and Intelligent Communication, 24-25 Aug 2019, Nanjing, China. (“Data-driven approach to demand dispatching for emerging on-demand services”)
16. Invited talk at 2019 中国通信学会全球科学家蓝海论坛, 4-6 Aug 2019, 杭州. (“Towards Next Generation Smart IoT”)
17. Keynote talk at the Workshop on Advanced Wireless Communication (WAWC), 8-12 July, Chengdu, China (“Edge Mesh – A New Computing Paradigm”)

18. Keynote talk at Workshop on Blockchain Research, 3-4 July, Chengdu, China. (“Blockchain-based Big Data Sharing”)
19. Panelsit at 2019 年中国国际大数据产业博览会 “区块链高端对话”, 26-29 May 2019 , 贵阳.
20. Keynote talk at *The 1st International Workshop on Intelligent Cloud Computing and Networking (ICCN 2019 @ INFOCOM2019)*. 29 April 2019, Paris, France. (“Collaborative Edge Computing for Scalable Connectivity and Distributed Intelligence”)
21. Keynote talk at *The 4th IEEE International Conference on Big Data Analytics (IEEE ICBDA 2019)*. March 15-18, 2019. Shuzhou, China. (“When IoT Meets Big Data”)
22. Keynote talk at *The 4th IEEE International Workshop on Pervasive Context-Aware Smart Cities and Intelligent Transportation Systems (PerAwareCity 2019)*, 11 March, 2019, Kyoto, Japan. (“When IoT Meets Big Data”)
23. Invited Lecture at *5th International Winter School on Big Data (BIGDAT 2019)*. January 7-11, 2019. Cambridge, UK. (“Cross-Domain Multi-Source Big Data Fusion and Analytics”)
24. Invited talk at *The 19th International Conference on Web Information Systems Engineering (WISE 2018)*, 12-15 November, 2018, Dubai, United Arab Emirates. (“Data-driven approach to demand dispatching for emerging on-demand services”)
25. Invited talk at *The 3rd International Workshop on Future Network Computing (FNC 2018)*, Oct 14-16 2018, Changsha, China. (“Blockchain-based Big Data Sharing: Opportunities and Challenges”)
26. Keynote Speech at *The 14th International Conference on Semantics, Knowledge and Grids (SKG 2018)*, 12-14 September, 2018, Guangdong, China. (“Towards Smart Internet-of-Things”)
27. Keynote Speech at *The 2018 International Conference on Big Data Engineering and Technology (BDET 2018)*, 25-27 August, 2018, Chengdu, China. (“Cross-Domain Big Data Fusion and Analytics”)
28. Panelist on “Research Challenges on Networks in Social Space” at *The 27th International Conference on Computer Communications and Networks (ICCCN 2018)*, 30 July - 2 August, 2018, Hangzhou, China.
29. Panelist on “Future of Computing” at *The 42nd IEEE International Conference on Computers, Software & Applications (COMPSAC 2018)*, 23-27 July, 2018, Tokyo, Japan.
30. Keynote Speech at *The 13th International Conference on Green, Pervasive and Cloud Computing (GPC2018)*, May 11 – 13, 2018. Hangzhou, China (“EdgeMesh: Enabling Scalable Connectivity and Distributed Intelligence for IoT”)
31. Invited Talk, Shonan Meeting No. 114 “Resilient Machine-to-Machine Communication”, National Institute of Informatics, 26 – 29 March, 2018. Japan.(“EdgeMesh: Enabling Scalable Connectivity and Distributed Intelligence for IoT”)
32. Keynote Speech at *The 3rd IEEE International Conference on Big Data Analytics (IEEE ICBDA 2018)*. March 9-12, 2018. Shanghai, China. (“Cross-domain Big Data Processing and Analytics”)
33. Keynote Speech at *The 13th International Conference on Mobile Ad-hoc and Sensor Networks (MSN 2017)*. Dec 17-20, 2017. Beijing, China. (“Energy Efficiency in Wireless Sensor Networks for Engineering Applications”)
34. Invited Talk at *The International Conference on Orange Technologies (ICOT 2017)*, Dec 8-10, 2017. Singapore. (“Smart Wireless Humans Sensing”)
35. Invited Talk at *Cyber Security for Industry 4.0 International Conference -- Connecting to Tomorrow's Global Supply Chain*, Nov. 21, 2017. Hong Kong (“Privacy Challenges in Big Data and Industry 4.0”)
36. Keynote Speech at *The 12th EAI International Conference on Communications and Networking in China (ChinaCom 2017)*. October 10-12, 2017. Xian, China. (“Smart Wireless Sensing for Humans”)
37. Keynote Speech at *The International Conference on Big Data, IoT, and Cloud Computing (BIC 2017)*. August 22-24, 2017. Jeju, Korea. (“Data-Driven Analysis of Human Dynamics using Wireless Signals”)
38. Keynote Speech at *The 3rd International Conference on Big Data Computing and Communications (BigCom 2017)*. August 10-11, 2017. Chengdu, China. (“Data Driven Approach to Urban Dynamics”)

39. Keynote Speech at *2017 International Workshop on Wireless and Security*. July 18-19, 2017. Xiamen University, Xiamen, China. (“Data-Driven Analysis of Human Dynamics Using Wi-Fi”)
40. Keynote Speech at *The 13th IEEE International Conference on Green Computing and Communications (GreenCom-2017)*. June 21-23, 2017. Exeter, UK. (“Energy Efficiency in Wireless Sensor Networks for Engineering Applications”)
41. Keynote Speech at *The 6th IEEE Workshop on the Internet of Things: Smart Objects and Services (IoT-SoS 2017)* (in conjunction with *IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks (WoWMoM 2017)*). June 12-15, 2017. Macau, China. (“Towards Smart Internet-of-Things”)
42. Invited Talk at *Workshop on Big Data Analysis with Applications, The 3rd International Conference on Engineering and Computational Mathematics (ECM 2017)*. May 31-June 2, 2017. Hong Kong, China. (“Data-Driven Analysis of Human Dynamics Using Wi-Fi”)
43. Panelist on “CPS Security and Safety” at *The 1st IEEE International Workshop on Big Data and IoT Security in Smart Computing (IEEE BITS 2017)* (in conjunction with *The 3rd IEEE International Conference on Smart Computing (IEEE SMARTCOMP 2017)*). May 29-31, 2017. Hong Kong, China.
44. Keynote Speech at *The 8th ACM International Conference on Future Energy Systems (ACM e-Energy 2017)*. May 17-19, 2017. Hong Kong, China. (“Toward Energy Efficient Wireless Sensor Networks”)
45. Keynote speech at *CCF IoT and Big Data Forum* (中国计算机学会物联网专业委员会「智能感知与大数据」高端论坛). April 28-30, 2017. Huaqiao University, Xiamen, China. (“Data-Driven Analysis of Human Dynamics Using Wi-Fi”)
46. Keynote Speech at *13th Workshop on Context and Activity Modeling and Recognition (CoMoRea 2017)* (in conjunction with *The 15th IEEE International Conference on Pervasive Computing and Communications (PERCOM 2017)*). March 13-17, 2017. Kona, Big Island, Hawaii, USA. (“Social Context Modelling and Recognition: Current Work and Future Directions”)
47. Invited Talk at *International Conference on Orange Technologies (ICOT 2016)*. December 17-20, 2016. Melbourne, Australia. (“Social Context Modelling and Recognition: Current Work and Future Directions”)
48. Keynote Speech at *3rd IEEE/ACM International Conference on Big Data Computing, Applications and technologies (BDCAT 2016)*. December 6-9, 2016. Shanghai, China. (“Performance Modelling and Optimization in Mobile Cloud Computing Environment”)
49. Keynote Speech at *The 10th China Conference on Wireless Sensor Network (CWSN 2016)*. October 28-30, 2016. Chengdu, China. (“Distributed Coordination of Multi-Robots System”)
50. Keynote Speech at *The 10th EAI International Conference on Performance Evaluation Methodologies and Tools (VALUETOOLS 2016)*. October 26-28, 2016. Taormina, Italy. (“Mobile Cloud Application Partitioning in Dynamic and Multi-User Environments”)
51. Invited Talk at *The 9th IEEE International Conference on Ubi-Media Computing (U-Media 2016)*. August 15-17, 2016. Moscow, Russia. (“Social Context Modelling and Recognition: Current Work and Future Directions”)
52. Keynote Speech at *The 15th International Symposium on Parallel and Distributed Computing (ISPDC2016)*. July 8-10, 2016. Fuzhou, Fujian, China. (“Design of Collaboration Algorithms for Distributed Intelligent MEMS”)
53. Invited Talk at *APAC Innovation Summit 2016 Series - Robotics*. June 2-3, 2016. Hong Kong, China. (“Distributed Coordination in Multi-Robot Systems”)
54. Panelist on “When Internet of Things (IoT) Meets Cloud Computing” at *The 1st IEEE International Conference on Internet-of-Things Design and Implementation (IoTDI 2016)*. April 4-8, 2016. Berlin, Germany.
55. Panelist on “Mobile Cloud: The Road from Research Vision to Successful Business” at *The 4th IEEE International Conference on Mobile Cloud Computing, Services, and Engineering (MobileCloud 2016)*. March 29 - April 1, 2016. Oxford, UK.

56. Keynote Speech at *4C Electronics Education Consortium*. December 11, 2015. Taiwan. (“Software Defined Wireless Networks (SDWN): Current Work and Future Directions”)
57. Keynote Speech at *The 7th IEEE International Conference on Cloud Computing Technology and Science (CloudCom 2015)*. November 30 - December 3, 2015. Vancouver, Canada. (“Cloud Augmented Mobile Applications: Research Framework and Challenging Issues”)
58. Keynote Speech at *The 15th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 2015)*. November 18-20, 2015. Zhangjiajie, China. (“Design of Distributed Algorithms for Engineering Applications of WSNs”)
59. Keynote Speech at *The 11th EAI International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2015)*. November 9-12, 2015. Wuhan, China. (“Social Context Modelling and Recognition: Current Work and Future Directions”)
60. Invited Talk at *Technical Track 5 on Computer Architecture & Systems of TENCON 2015*. November 1-4, 2015. Macau, China. (“Software Defined Vehicle Networks (SDVN): Challenges and Opportunities”)
61. Invited Talk at *Workshop of “Internationalization of knowledge and know-how” at EXPO Milano 2015*. October 21, 2015. Milan, Italy. (“PolyU and University of Messina: Research and Mobility Cooperation”)
62. Invited Talk at *The 4th CCF Internet Conference of China (ICoC 2015)* (第四届中国互联网学术年会). August 27-28, 2015. Shenyang, China. (“Software Defined Wireless Networks (SDWN: Current Work and Future Directions”)
63. Keynote Speech at *2015 The International Conference on Semantics, Knowledge and Grids on Big Data (SKG 2015)*. August 19-21, 2015. Beijing, China. (“Computation Partitioning for Mobile Cloud Applications”)
64. Invited Speech at *Smart World Summit 2015*. August 11, 2015. Beijing, China. (“A world with Emotions”)
65. Keynote Speech at *2015 International Workshop on Software-Defined Data Communications and Storage (SDDCS 2015)* (in conjunction with *The 33rd IEEE Conference on Computer Communications (IEEE INFOCOM 2015)*). April 26 - May 01, 2015. Hong Kong, China.
66. Invited Lecture at *1st International Winter School on Big Data (BIGDAT 2015)*. January 25-27, 2015. Tarragona, Spain. (“Programming with Big Data”)
67. Keynote Speech at *The 8th International Conference on Mobile Computing and Ubiquitous Networking (ICMU 2015)*. January 19-21, 2015, Hakodate, Japan. (“Computation Partitioning for Mobile Cloud Applications”)
68. Keynote Speech at *International Conference on Distributed Computing and Networking (ICDCN 2015)*. January 4-6, 2015, Goa, India. (“Computational Partitioning in Mobile Cloud Computing”)
69. Keynote Speech at *2014 International Conference on Cloud Computing and Big Data (CCBD-2014)*. November 12-14, 2014, Wuhan, China. (“Computational Partitioning in Mobile Cloud Computing”)
70. Panelist on “e-Government” at *Hong Kong International Computer Conference (HKICC 2014)*. October 30-31, 2014. Hong Kong, China.
71. Keynote Speech at *The 2014 International Workshop on Future Trends of Big Data, Systems, and Networking (FTBDSN 2014)*. September 17-19, 2014. Melbourne, Australia. (“Programming Support for Big Data Applications”)
72. Keynote Speech at *The 6th International Symposium on Parallel Architectures, Algorithms and Programming (PAAP 2014)*. July 11-13, 2014. Beijing, China. (“Programming with Big Data”)
73. Invited Talk at *Workshop in “Cloud Computing and Big Data Analytics”*. December 20, 2013. Taipei, Taiwan.
74. Keynote Speech at *The 6th IEEE International Conference on Ubi-Media Computing (U-Media 2013)*. November 2-4, 2013. Aizu-Wakamatsu, Japan. (“Hot Research Topics in Mobile Cloud Computing”)

75. Keynote Speech at *2013 National Conference on Theoretical Computer Science (NCTC 2013)*. October 11-13, 2013. Tianjin, China. (“Distributed Processing in Wireless Ad Hoc and Sensor Networks”)
76. Keynote Speech at *The 8th International Conference on Communications and Networking in China (ChinaCom 2013)*, August 14-16, 2013. Guilin, China. (“Applications and Challenges of Wireless Ad Hoc and Sensor Networks”)
77. Keynote Speech at *The 18th International Conference on Parallel and Distributed Systems (ICPADS 2012)*. December 17-19, 2012. Singapore. (“Distributed Processing in Wireless Ad Hoc and Sensor Networks”)
78. Keynote Speech at *The 7th International Conference on Ubiquitous Information Technologies and Applications (CUTE 2012)*. December 20-22, 2012. Hong Kong, China. (“Middleware Paradigms for Challenged and Dynamic Computing Environments”)
79. Invited Talk at *IEEE-CCF Workshop on Innovations in Engineering Education*. October 22-23, 2012. Beijing, China.
80. Invited Talk at *CSU-Intel Summit on Transparent Computing and Platform Innovation*. October 18, 2012. Changsha, China.
81. Invited Talk at *The 1st China Forum on Internet of Energy: Strategies and Development*. August 17-18, 2012. Changsha, China.
82. Invited Talk at *Forum on Mobile Internet, 2011 China National Computer Congress (CNCC 2011)*. November 24-26, 2011. Shenzhen, China. (“Mobile Cloud Computing: Challenges and Directions”)
83. Keynote Speech at *The 11th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2010)*. December 8-11, 2010. Wuhan, China. (“Distributed Algorithms for Wireless Networks”)
84. Keynote Speech at *2010 IET International Conference on Wireless Sensor Networks (IET WSN 2010)*. November 15-17, 2010. Beijing, China. (“WSN for ITS: Challenges and Opportunities”)
85. Keynote Speech at *The 4th CCF Annual Conference on Wireless Sensor Networks (WSNC 2010)*. October 28-30, 2010. Changsha, China. (“WSN for SHM: Challenges and Opportunities”)
86. Keynote Speech at *The 6th CCF Joint Conference on Harmonious Human Machine Environment (HHME 2010)*. September 24-25, 2010. Luoyang, China. (“Pervasive Computing: Achievements and Open Challenges”)
87. Panelist on “Future Networking or Future of Network Computing” at *The 1st China Computer Federation’s Conference on Future Computing (CFC 2010)*. June 17-18, 2010, Changsha, China.
88. Invited Tutorial at *The 11th International Conference on Distributed Computing and Networking (ICDCN 2010)*. January 3-6, 2010. Kolkata, India. (“Middleware for Pervasive Computing”)
89. Invited Talk at *2009 Fujian Computer Federation Annual Conference*. December 11, 2009. Fuzhou, China. (“Middleware Challenges in Pervasive Computing”)
90. Keynote Speech at *The 2009 IEEE International Symposium on Trust, Security and Privacy for Pervasive Applications (TSP 2009)*. October 12-14, 2009. Macau, China. (“Secure Localization and Location Verification in Wireless Sensor Networks”)
91. Keynote Speech at *The 6th Web Information Systems and Applications Conference (WISA 2009)*. September 19, 2009. Xuzhou, Jiangsu, China. (“Ubiquitous Search in Integrated Physical-Cyber Worlds”)
92. Panelist on “Pervasive Computing: Key Technologies and Adoption” at *The 7th Annual IEEE International Conference on Pervasive Computing and Communications (IEEE PerCom 2009)*. March 9-13, 2009. Galveston, Texas, USA.
93. Keynote Speech at *2008 International Conference on Computer Science and Software Engineering (CSSE 2008)*. December 12-14, 2008. Wuhan, China. (“Middleware Challenges in Pervasive Computing”)

94. Keynote Speech at *The 9th International Conference for Young Computer Scientists (ICYCS 2008)*. November 18-21, 2008. Zhangjiajie, China. (“Seamless Wireless Communications for Pervasive Internet Access”)
95. Invited Talk at *D2D 2008 Workshop* (in conjunction with *The 7th International Conference on Grid and Cooperative Computing (GCC 2008)*). October 24-26, 2008. Shenzhen, China. (“Pervasive searching and browsing of objects in Physical World”)
96. Panelist on “Mobile and Pervasive Computing: Continued Challenges and Issues” at *The 17th IEEE International Conference on Computer Communications and Networks (ICCCN 2008)*. August 3-7, 2008. St. Thomas U.S. Virgin Islands, USA.
97. Panelist on “Next-Generation Wireless Networking: Opportunities and Challenges” at *The 5th International ICST Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (QShine 2008)*. July 28-31, 2008. Hong Kong, China.
98. Keynote Speech at *Polynet IT Security Symposium 2008*. June 4-5, 2008. Hong Kong, China. (“Seamless Wireless Communications for Pervasive Internet Access”)
99. Keynote Speech at *The 5th IEEE International Workshop on Mobile Peer-to-Peer Computing (MP2P 2008)* (in conjunction with *The 6th Annual IEEE International Conference on Pervasive Computing and Communications (IEEE PerCom 2008)*). March 17-21, 2008. Hong Kong, China. (“Data Caching in Wireless Ad Hoc Networks”)
100. Invited Talk on “Research and Advance in Pervasive Computing Theory and Technology” at *Chinese Ministry of Education’s Advanced Workshop*. December 10, 2007. Beijing, China. (“Mobile Computing and Wireless Sensory Networks in Pervasive Computing”)
101. Panelist on “Future Trends of Autonomic and Ubiquitous Computing?” at *The 4th International Conference on Ubiquitous Intelligence and Computing (UIC 2007)*. July 11-13, 2007. Hong Kong, China.
102. Keynote Speech at *The 3rd Workshop on Grid Technologies and Applications (WoGTA 2006)*. December 7-8, 2006. Chung Hua University, Hsinchu, Taiwan. (“Integration of Grid and P2P Computing Technologies”)
103. Invited Talk at *Wireless and Mobile Computing Seminar* (organized by the Office of the Government Chief Information Officer (OGCIO) of HKSAR). September 29, 2006. Hong Kong, China. (“Wireless Sensor Networks”)
104. Keynote Speech at *The International Multi Conference of Engineers and Computer Scientists (IMECS 2006)* (organized by International Association of Engineers). June 20-22, 2006. Hong Kong, China. (“Research in Mobile Computing Middleware”)
105. Keynote Speech at *The 24th Annual Brazilian Symposium of Networks of Computers (BSRC 2006)* (organized by the Brazilian Society of Computers). May 29-June 2, 2006. Curitiba, Brazil. (“Cooperative Caching in MP2P Systems over MANET”)
106. Tutorial at *The 24th Annual Brazilian Symposium of Networks of Computers (BSRC 2006)* (organized by the Brazilian Society of Computers). May 29-June 2, 2006. Curitiba, Brazil. (“Query Processing in P2P Systems”)
107. Panelist on “Computer Architecture for Pervasive Computing” at *2005 China National Computer Congress (CNCC 2005)*. October 13-15, 2005. Wuhan, China.
108. Invited Talk at *Wireless and Mobile Transaction Seminar and Showcase* (organized by the Office of the Government Chief Information Officer (OGCIO) of HKSAR). January 21, 2005. (“PDAgent – A Platform for Deploying Mobile Agent Enabled Mobile Applications on Wireless Handheld Devices”)
109. Invited Tutorial at *The 6th International Workshop on Distributed Computing (IWDC 2004)*. December 27-31, 2004. Kolkata, India. (“Mobile Agent and Applications in Networking and Distributed Computing”)
110. Keynote Speech at *2004 Workshop on High Performance Scientific and Engineering Computing (ICPP HPSEC 2004)* (in conjunction with *The 33rd International Conference on Parallel Processing (ICPP04)*).

August 15-18, 2004. Montreal, Quebec, Canada. (“ClusterGOP: A High-Level Parallel Programming Environment”)

111. Invited Speech at *International Forum on Advanced Grid Computing Technology in Pacific-Rim*. March 21-22, 2004. Aizu, Japan. (“Fault Tolerance in Grid Computing”)

112. Invited Speech at *Advanced Workshop in Spatial Information Technology*. September 20, 2002. Hong Kong, China. (“Mobile Agent Technology and its Applications in Mobile Computing”)

113. Panelist on “Is There a Complete Test That Can Replace Proof?” at *The 12th International Symposium on Software Reliability Engineering (ISSRE 2001)*. November 27-30, 2001. Hong Kong, China.

RESEARCH AND DEVELOPMENT

Research Interests

Parallel and Distributed Computing, Wireless Networking and Mobile Computing, Big Data and Machine Learning, and Cloud and Edge Computing. My recent research focuses on three main areas:

- Big data analytics and machine learning - data-driven approach to designing and optimizing resource management in networks, urban dynamics and human dynamics, with innovative algorithm and technique design, system platforms and applications
- Distributed systems – design and implementation of distributed algorithms and platforms for blockchain systems and applications, and for coordination of multi-robots.
- Mobile and wireless sensing and networking: smart sensing of humans; wireless sensor networks for engineering applications, like SHM; mobile cloud computing and edge computing.

Research and Industrial Grants (As PI / Co-PI / Co-I)

As a principal investigator (PI), I’ve obtained over HK\$67 million grants from funding agencies such as National Natural Science Foundation of China (NSFC), Ministry of Science and Technology of P. R. China (MOST), Hong Kong Research Grant Council (RGC), Hong Kong Innovation and Technology Commission (ITC), The Society of Hong Kong Scholars, and industries and organizations like Alibaba, IBM, Nokia, HK Jockey Club and Hong Kong Construction Industry Council.

As PI, I have successfully obtained 1 RGC CRF grant, 1 RGC RIF grant, 17 HK RGC GRF grants, 1 grant under HK RGC ANR/RGC Joint Research Scheme, 1 grant under HK RGC NSFC/RGC Joint Research Scheme, 2 grants under HK RGC France/HK Joint Research Scheme, 2 grants under HK RGC Germany/HK Joint Research Scheme, 1 NSFC Key Project grant, 4 ITF grants (3 Tier 2 and 1 Tier 3), 3 grants under HK Scholars Program, and 5 Industry grants (PI: HK CIC, Alibaba, GogoVan, etc).

I have also participated as Co-I in many funded projects including China National 973 projects, China National 863 projects, NSFC projects and China MOST Key projects.

Project Title	Period	Funding Scheme	Amount
Development of Next-generation Key Technologies for Smart Buildings	06/2021-06/2024	HK RGC Collaborative Research Fund (CRF)	HK\$5,840,000
Edge Learning: the Enabling Technology for Distributed Big Data Analytics in Cloud-Edge Environment	05/2020-04/2025	HK RGC Research Impact Fund	HK\$5,348,000
A High-performance Distributed Machine Learning Framework for Graph-based Streaming Data with Smart City Applications	09/2020-08/2025	Theme-based Research Scheme	HK\$33,332,000

E-Tree Learning: A Novel Decentralized Model Learning Framework for Edge AI	01/2021-12/2023	HK RGC General Research Grant (GRF)	HK\$1,057,394
Data-driven port state control (PSC) policies: improving maritime safety and promoting green shipping	08/2020-08/2021	Public Policy Research Funding Scheme	HK\$223,100
Thin Tasklets: Integration of a Distributed Computing Environment in the Internet of Things	01/2020-12/2021	Germany/Hong Kong Joint Research Scheme	HK\$85,800
Task Partition and Migration for High Performance Collaborative Edge Computing	01/2020-12/2022	HK RGC General Research Fund (GRF)	HK\$851,290
Separation of Data flow and Control flow in Black Box Software Systems	01/2020-12/2022	Guangdong Key Area R & D Plan	RMB\$2,600,000
Tackling Grand Challenges in Food Safety: A Big Data and IoT Enabled Approach	06/2019-06/2024	HK RGC Research Impact Fund	HK\$5,423,600
Multi-stage Big Data Analytics for Complex Systems: Methodologies and Applications	06/2019-06/2022	RGC Collaborative Research Fund (CRF)	HK\$3,661,193
A Human-Powered Machine Learning System	06/2019-06/2022	RGC Collaborative Research Fund (CRF)	HK\$42,000
Data Aware Task Allocation for Collaborative Edge Computing	01/2019-12/2021	HK RGC General Research Fund (GRF)	HK\$715,500
Human-Computer Fusion Cloud Computing Architecture and Software Definition Method	05/2018-04/2021	National Key R&D Program of China	RMB\$1,000,000
Big-data-enabled Collaborative Database for Non-targeted Contaminants Detection	11/2018-11/2020	Innovation and Technology Fund (ITF) - LSCM	HK\$660,000
BigARM: Big Data-driven Airport Resource Management Engine and Application Tools	07/2018-06/2020	HK ITC-ITSP Fund	HK\$6,594,312
Demand Dispatching for Emerging On-demand Services: A Data Driven Approach	01/2018-12/2020	HK RGC General Research Fund (GRF)	HK\$973,750
Middleware for Distributed Control and Coordination of Robot Networks	04/2018-03/2020	Shenzhen Basic Research Funding Scheme	RMB 500,000
Urban Computing: Big Data Processing and Analytics	01/2018-01/2020	Hong Kong Scholars Program	HK\$315,000
Security and Privacy-enhancing Technologies for Cloud Storage of Big Data	06/2017-05/2020	HK RGC Collaborative Research Fund (CRF)	HK\$1,220,800
Dynamic Computation Partitioning for Multi-user Mobile Cloud Applications	01/2016-06/2019	HK RGC General Research Grant (GRF)	HK\$845,033
Cross-disciplinary Big Data Processing and Analytics	07/2015-06/2018	HK PolyU Project of Strategic Importance	HK\$3,000,000

Learning Analytics and Educational Data Mining: Making Sense of Big Data in Education	07/2015-12/2019	HK PolyU Learning and Teaching Committee - Institutional Teaching Development Project	HK\$972,000
Unconsciously Collaborative Crowd Intelligence Based Social Events Geo-Information Inference and Spatial Correlation Study	01/2014-12/2018	NSFC Key Project Grant	HK\$377,850
A General Scalable Framework for Integrating Big Data Programming Models with Unified Abstraction	01/2014-12/2016	HK RGC General Research Grant (GRF)	HK\$500,000
Modelling and Programming of Coordination in Distributed Intelligent MEMS	01/2014-01/2016	Hong Kong Scholars Program	HK\$315,000
Distributed Proactive Adaptation for Ubiquitous Interactive Objects	01/2014-12/2015	HK RGC Germany/HK Joint Research Scheme	HK\$90,000
s-Helmet – A Proactive Construction Safety Management System Based on Real-Time Localization	05/2013-10/2014	HK Construction Industry Council (CIC) - Research Project	HK\$1,138,500
Coordination and Computation in Distributed Intelligent MEMS	03/2013-02/2016	HK RGC ANR/RGC Joint Research Scheme	HK\$1,390,600
Searching and Browsing Cyber-Physical Objects	01/2013-12/2016	HK RGC NSFC/RGC Joint Research Scheme	HK\$1,016,658
Programming Model and Execution Framework for Developing Mobile Cloud Applications	01/2013-12/2015	HK RGC General Research Grant (GRF)	HK\$905,420
A Simulation Environment for Pervasive Networking and Computing	01/2012-12/2014	HK RGC General Research Grant (GRF)	HK\$1.218M
Programming Pervasive Computing Middleware based on Ubiquitous Interacting Objects	01/2011-12/2013	HK RGC General Research Grant (GRF)	HK\$945,000
Dynamic Collaborative Event Processing in Distributed Systems	01/2011-12/2012	HK RGC France/HK Joint Research Scheme	HK\$61,200
A Versatile Wireless Sensor Network Platform for Structural Health Monitoring	03/2010-08/2011	HK ITC Innovation and Technology Support Programme (ITF - ITSP - Tier 3)	HK\$862,000
Security Solutions for Ubiquitous and Seamless Internet Access over Heterogeneous Wireless Networks	04/2009-03/2011	HK ITC Guangdong-HK Technology Cooperation Funding Scheme (ITF - ITSP - TCFS)	HK\$5,785,000
High-Performance Publish/Subscribe Middleware for Wireless Sensor Networks	01/2009-12/2011	HK RGC General Research Grant (GRF)	HK\$466,016
Structural Health Monitoring using Wireless Sensor Network	02/2008-02/2012	HK PolyU Niche Areas	HK\$823,814

Distributed Cooperative Sensing and Fusion in Wireless Sensor Networks for Target Tracking Applications	09/2007-08/2009	HK RGC Competitive Earmarked Research Grant (CERG)	HK\$424,600
Seamless Communication and Mobility in Advanced Heterogeneous Wireless Network	04/2007-04/2009	HK ITC Guangdong-HK Technology Cooperation Funding Scheme (ITF - ITSP - TCFS)	HK\$5,898,984
Traffic Safety and Information Management with Wireless Sensor Network	06/2007-06/2009	HK PolyU Research Grants for Interdisciplinary/ Collaborative Research	HK\$303,743
Design of High-Performance Publish / Subscribe System for Mobile Computing Environments	09/2006-08/2009	HK RGC Competitive Earmarked Research Grant (CERG)	HK\$805,200
A Research Centre for Ubiquitous Computing	06/2006-05/2009	RGC Collaborative Research Fund (CRF)	HK\$600,000
Models and Protocols for Wireless Sensor Networks in Structural Health Monitoring	06/2006-05/2008	HK PolyU Research Grants for Interdisciplinary/ Collaborative Research	HK\$319,900
New Models and Protocols for Cooperation Problems in Distributed Computing Systems	01/2006-12/2007	HK RGC France/HK Joint Research Scheme	HK\$43,974
Consistency of Cooperative Caching in Mobile Ad Hoc Networks	12/2005-12/2007	HK RGC Competitive Earmarked Research Grant (CERG)	HK\$359,224
Test-bed for Wireless Sensor Network Research and Applications	2005-2007	HK PolyU Large Equipment Fund	HK\$701,204
Design of Network Topology and Routing Protocols for Wireless Mobile Communications	02/2005-01/2006	HK PolyU Central Research Grant (Postdoctoral Fellowship Scheme)	HK\$652,000
Middleware Support for Mobile Agent-Enabled Mobile Computing	11/2004-10/2006	HK RGC Competitive Earmarked Research Grant (CERG)	HK\$339,414
Design of Reliable Wireless Sensor Networks with Applications in Intelligent Buildings	08/2004-07/2006	HK PolyU Research Grants for Interdisciplinary/ Collaborative Research	HK\$200,000
QoS Mobile Group Communications - A Unifying Framework	12/2003-12/2005	HK RGC Competitive Earmarked Research Grant (CERG)	HK\$377,149
Middleware for Collaborative, Location-Aware Mobile Applications	09/2003-08/2005	HK PolyU Research Grants for Interdisciplinary/ Collaborative Research	HK\$250,000
Design of Fault Tolerant Mobile Agent Systems	12/2002-12/2004	HK RGC Competitive Earmarked Research Grant (CERG)	HK\$413,404
A Software Environment for Simulating Mobile Agent Algorithms	05/2002-04/2004	HK PolyU ICRG (Internal Allocation of Competitive Research Grants)	HK\$235,625
Design of High-performance Interconnection Networks for Parallel and Distributed Computing Systems	12/2001-12/2003	HK PolyU Central Research Grant (Research Fellowship Matching Fund)	HK\$814,740

Cooperating Mobile Agents: A Novel Approach to Designing Distributed Control Algorithms	12/2001-12/2003	HK RGC Competitive Earmarked Research Grant (CERG)	HK\$387,248
A Graph-oriented Framework for Programming Distributed Systems	12/1996-11/1998	HK RGC Competitive Earmarked Research Grant (CERG)	HK\$362,000

Industrial and Consultancy Grants (As PI)

Project Title	Period	Funding Sources	Amount
The Tender for the Provision of Profiling Diversity Platform - Student Learning Analytics (SLA) Subsystem of the Jockey Club "Diversity at Schools"	08/2020-12/2021	The Hong Kong Jockey Club	HK\$1,652,925
2019 年 IT 架构支撑研究服务项目 (理大科技)	NA	China Comservice (Hong Kong) Limited	HKD587,100
Research on Highly Accurate Indoor Localization Techniques for the Large-scale Warehouses	02/2018-05/2019	Alibaba Innovative Research (AIR) Program by Alibaba (China) Co., Ltd.	HK\$776,250
Federated block-chain for ensuring the provenance and authenticity of food items	02/2018-05/2019	Alibaba Innovative Research (AIR) Program by Alibaba (China) Co., Ltd	HK\$776,250
A Framework for Performance Measurement and Optimization for Mobile Cloud Applications	12/2013	IBM Shared University Research Grant	USD15,000 (HK\$115,800)
A Wireless Mesh Network Platform Supporting Under-Mine Voice and Video Communication (支持井下無線語音通訊和視頻傳輸的無線網狀網系統研究及開發服務)	06/2011-06/2013	Jinan Landong Laser Technology Limited	HK\$360,000
A Ubiquitous Searching and Browsing Framework	04/2009-02/2010	Nokia Research Center (Beijing)	HK\$215,520

TEACHING AND SUPERVISION

Leadership in Teaching

At Hong Kong Polytechnic University, I led the development of the M.Sc. in E-commerce programme, including the curriculum and its validation, in the Department of Computing in 2001. As Head of Department (2010 – 2016), I have led and worked with our colleagues in 334 transitions, developing new programmes (Executive Master in Digital Leadership, and Top-up programme in FinTech), reviewing and consolidating curriculum and subjects, and pushing out new teaching and learning initiatives (Challengers Programme, International Final Year Projects, Overseas Tours, Double degree Master Program).

I have obtained a teaching and learning grant on big data learning analytics in 2015. I have also obtained a teaching grant on developing on-line virtual programming lab in 2005.

Subjects Taught

In the past 25 years, I have taught over 20 subjects (1 Executive Master subject, 9 postgraduate subjects, 20 Undergraduate subjects) at four universities in Australia and Hong Kong. The students' responses have always been positive with very good comments and evaluation results. Currently, I am teaching Year-1 Programming Fundamentals, a foundation subject, Msc subject in Distributed Computing, and EMDL subject on Pervasive and Smart Computing.

- *Pervasive and Smart Computing* Executive Master subject, Hong Kong Polytechnic University
- *Mobile Computing and Data Management* MSc subject, Hong Kong Polytechnic University
- *Distributed Computing* MSc subject, Hong Kong Polytechnic University
- *Advanced Internet Computing* MSc subject, Hong Kong Polytechnic University
- *Advanced Java Programming* MSc subject, Hong Kong Polytechnic University
- *Computer Communication Networks* MSc subject, Hong Kong Polytechnic University
- *Selected Topics in Computer Communications* MSc subject, Hong Kong Polytechnic University
- *Mobile Computing* 3rd year subject, Hong Kong Polytechnic University
- *Electronic Commerce* 2nd year subject, Hong Kong Polytechnic University
- *Fundamentals of Object-oriented Technologies* 2nd year subject, Hong Kong Polytechnic University
- *System Programming* 2nd year subject, Hong Kong Polytechnic University
- *Parallel and Distributed Computing* 2nd year subject, Hong Kong Polytechnic University; Honors subject, James Cook University
- *Programming Fundamentals* 1st year subject, Hong Kong Polytechnic University
- *Principles of Programming (with Java)* 1st year subject, Hong Kong Polytechnic University
- *Use of Computers (Microsoft Access)* 1st year subject, Hong Kong Polytechnic University
- *Information Technology Systems* Foundation subject, Hong Kong Polytechnic University
- *Software Engineering and Projects* MSc subject, City University of Hong Kong; Final year subject, University of Adelaide
- *Data Structures and Algorithms* MSc subject, City University of Hong Kong
- *Data Engineering* MSc subject, City University of Hong Kong
- *Fault Tolerant Computing* Honors year subject, University of Adelaide; Final year subject, City University of Hong Kong
- *Compiler Construction and Projects* 2nd year subject, University of Adelaide
- *Programming Paradigms and Languages (C++, Miranda, Ada, Smalltalk)* 2nd year subject, University of Adelaide; 2nd year subject, James Cook University
- *Computer System Architecture* 2nd year subject, James Cook University; 1st year subject, Hong Kong Polytechnic University
- *Operating Systems* Final year subject, James Cook University
- *Algorithms and Complexity* Final year subject, James Cook University
- *Computer Architecture and Communications* Final year subject, James Cook University

Supervision

I have supervised over 40 Ph.D. and 13 MPhil students, and co-supervised 17 Ph.D. and 2 MPhil students in Australia and in Hong Kong. Also, I have supervised a total of more than 65 BSc final year and MSc projects, among which many obtained excellent results with awards.

ADMINISTRATION (SELETCTED)

- **Department-level:**
Head/ Associate Head; Ex-officio Member of Departmental Advisory Committee; Ex-officio Member/ Chairman/ Member of Departmental Research Committee; Chairman/ Member of Departmental

Staffing/Review Committee; Chairman/ Member of Departmental Management Committee; Member of Departmental Resource Committee; Member of Departmental Teaching and Learning Committee; Club Director of Undergraduate Researchers' Club of Challengers Program

- **Faculty-level:**

Member of Faculty Board; Member of Faculty Research Committee

- **University-level:**

Dean of Graduate School, Member of University Research Committee; Chairman of Search Committee for Department of BSE; Member of Independent Panel of Investigation on Research Misconduct; Member of Departmental Review Panel for Department of ISE and School of Design; Member of Departmental Assessment Panel for Pao Yue-Kong Library

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| • Dean of Graduate School | Hong Kong Polytechnic University |
| • Head / Associate Head, Department of Computing | Hong Kong Polytechnic University |
| • Ex-officio Member of Departmental Advisory Committee | Hong Kong Polytechnic University |
| • Ex-officio Member/Chairman/Member of Departmental Research Committee | Hong Kong Polytechnic University |
| • Chairman/Member of Departmental Staffing/Review Committee | Hong Kong Polytechnic University |
| • Chairman/Member of Departmental Management Committee | Hong Kong Polytechnic University |
| • Member of Departmental Resource Committee | Hong Kong Polytechnic University |
| • Member of Departmental Teaching and Learning Committee | Hong Kong Polytechnic University |
| • Club Director, Undergraduate Researchers' Club of Challengers Program | Hong Kong Polytechnic University |
| • Member of Faculty Research Committee | Hong Kong Polytechnic University |
| • Member of University Research Committee | Hong Kong Polytechnic University |
| • Member of University Appointment Committee for Academic Staff (II) | Hong Kong Polytechnic University |
| • Member of Non-Heads of Department Consultative Group | Hong Kong Polytechnic University |
| • Member of Faculty Board | Hong Kong Polytechnic University;
City University of Hong Kong |
| • Member of Working Group on Data Access (Teaching and Learning, Research) | Hong Kong Polytechnic University |
| • Chairman of Search Committee (HoD BRE) | Hong Kong Polytechnic University |
| • Member of Search Committee (HoD EE) | Hong Kong Polytechnic University |
| • Member of Search Committee for Dean (SD) | Hong Kong Polytechnic University |
| • Member of Independent Panel of Investigation on Research Misconduct | Hong Kong Polytechnic University |
| • Member of School / Departmental Review Panel | The Hong Kong Polytechnic University |
| • Member of Assessment Panel of Pao Yue-Kong Library | Hong Kong Polytechnic University |
| • Member of Assessment Panel for Area of Strategic Development (ASD) | Hong Kong Polytechnic University |
| • Member of Programme Validation Panel | Hong Kong Polytechnic University |
| • Chairman of BoE, PhD / MPhil Study | Hong Kong Polytechnic University |
| • Programme leader, MSc E-commerce | Hong Kong Polytechnic University |

- Degree Final Year Project Coordinator
 - BAC and BscIT Year-1 tutor
 - MSc course tutor
 - Member of Faculty and Department Course Planning Teams
 - Member of Faculty and Department Curriculum Committees
 - Department Seminar Coordinator
- Hong Kong Polytechnic University
 Hong Kong Polytechnic University
 City University of Hong Kong
 City University of Hong Kong;
 University of Adelaide
 University of Adelaide
- Department Library Liaison Officer
- Hong Kong Polytechnic University;
 University of Adelaide;
 James Cook University
 University of Adelaide;
 James Cook University

SELECTED PUBLICATIONS

My papers have been well cited and followed up by many international researchers. My Google Scholar Citations has a total of over 18223 citations, with h-index 65 and i10-index 391.

Patents

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3. Yang Liu, Xiaoqing Wang, Yuming Deng, Hanqing Wu, Jiannong Cao, Yanni Yang, Shan Jiang, “跨链交易方法、装置、多区块链系统及计算设备”, February 2021. Patent No. CN112348672A
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10. Wei Feng and Jiannong Cao, “Charging method, charging system and charging server for sensor network (感知网络计费方法、系统及服务器)”. October 17, 2012: CN201110080861.1
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14. Gang Yao, Jiannong Cao, Chisheng Zhang and Chuda Liu, “Double Radio Frequency Scheduling Method for Quick Switching (一种用于快速切换的双射频接口调度方法)”. August 15, 2012. Patent No. ZL200910139279.0
15. Kun Xie, Jiannong Cao, Jigang Wen, Chuda Liu and Weimin Chen, “Method, Device and System for Finding Wireless Network Topology (一种无线网络拓扑发现方法、装置及系统)”. February 24, 2010. Patent No. CN200810210072.3
16. Weigang Wu, Jiannong Cao, Yang Zou and Chuda Liu, “Switching Method for Wireless Mesh Network (一种用于无线网状网络的切换方法)”. August 8, 2012. Patent No. ZL200910126987.0

Books

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2. Jiannong Cao, Chisheng Zhang, Seamless and Secure Communications over Heterogeneous Wireless Networks (Springer). February 2014. 95 pages. ISBN: 978-1493904150.
3. Jiannong Cao, Sajal K. Das, Mobile Agents in Networking and Distributed Computing (John Wiley & Sons, Inc.). July 2012. 352 pages. ISBN: 978-0-471-75160-1.
4. Binbin Zhou, Jiannong Cao, Bai Li, Adaptive Traffic Light Control in WSN-Based ITS: Both Isolated Intersection and Multiple Intersections (LAP LAMBERT Academic Publishing, Germany). April 2012. 156 pages. ISBN: 3-848-42542-4.
5. Ming Xu, Jiannong Cao, Wei Peng, Mobile Computing Technologies (移動計算技術) (Tsinghua University Press 清華大學出版社). September 2008. 378 pages.
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7. Hongke Zhang, Stephan Olariu, Jiannong Cao, David B. Johnson (Eds), Mobile Ad-Hoc and Sensor Networks – MSN 2007 (Dec.), Lecture Notes in Computer Science, Vol. 4864, Springer Verlag, Berlin, Germany, 2007. ISBN 3-540-77023-2, 869 pages.
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2. Jiaxing Shen, Yi Lau, and Jiannong Cao. "Data-Driven Mall Advertising", a chapter in Smart Marketing With the Internet of Things, pp. 123-138. IGI Global, 2019.
3. Yuvraj Sahni, Jiannong Cao, Shan Jiang, “Middleware for Multi-robot Systems”, a chapter in Mission-Oriented Sensor Networks and Systems: Art and Science, Springer, Cham, 633-673, 2019.
4. Liu, Kai, Victor CS Lee, Sang H. Son, Joseph KY Ng, Jiannong Cao, and Hongwei Zhang, “Cooperative Data Scheduling via V2V/V2I Communications in Software-Defined Vehicular Networks”, a chapter in Vehicle-to-Vehicle and Vehicle-to-Infrastructure Communications (Taylor and Francis). January 2018. pp. 59-90. ISBN: 978-135178232-6;978-113870683-5.
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8. Joanna Siebert, Jiannong Cao, "Scalable Service Composition in Pervasive Computing", a chapter in *Scalable Computing and Communications: Theory and Practice* (Wiley-IEEE Computer Society Press), Samee U. Khan, Lizhe Wang and Albert Y. Zomaya (Eds.). January 2013. pp. 659-674. ISBN: 978-1-118-16265-1.
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11. Kang Zhang, Jun Kong, and Jiannong Cao, "Visual Software Engineering", a chapter in *Encyclopedia of Computer Science and Engineering* (Wiley & Sons), Benjamin W. Wah (Ed.). January 2009. ISBN: 978-0-471-38393-2.
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14. Jiannong Cao, Alvin T.S. Chan, Yudong Sun, "GOP: A Graph-Oriented Programming Model for Parallel and Distributed Systems", a chapter in *New Horizons of Parallel and Distributed Computing* (Springer), Minyi Guo and Laurence T. Yang (Eds.). 2005. pp. 21-36. ISBN: 0-387-24434-4.
15. Guojun Wang, Jiannong Cao, Keith C.C. Chan, "Group Communication Protocols in Wireless Internet", a chapter in *Ad Hoc and Sensor Networks* (Nova Science Publishers). Series: *Wireless Networks and Mobile Computing*, Volume 2, Yi Pan and Yang Xiao (Eds.). 2005. pp. 235-267. ISBN: 1-59454-396-8.
16. Jiannong Cao, Jingyang Zhou, Daoxu Chen, Alvin T. S. Chan, Jian Lu, "Mobile Agent Technology and Its Application in Internet Computing", a chapter in *Computational Web Intelligence: Intelligent Technology for Web Applications* (World Scientific Pub), Volume 58, Yan-Qing Zhang, Abraham Kandel, T.Y. Lin and Y.Y. Yao (Eds.). August 2004. pp. 453-480. ISBN: 978-981-238-827-8.
17. Jiannong Cao, Zhihong Ren, Alvin T.S. Chan, Ling Fang, Li Xie, Daoxu Chen, "A Formalism for Graph-Oriented Distributed Programming", a chapter in *Visual Programming - From Theory to Practice* (Springer), Kang Zhang (Ed.). April 2003. pp. 77-109. ISBN 1-4020-7448-4.
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3. Yanwen Wang, Jiannong Cao, Yuanqing Zheng, "Towards A Low-cost Software-Defined UHF RFID System for Distributed Parallel Sensing", to appear in *IEEE Internet of Things Journal*. (2021)
4. Divya Saxena, Jiannong Cao, "Multimodal Spatio-Temporal Prediction with Stochastic Adversarial Networks", to appear in *ACM Transactions on Intelligent Systems and Technology (TIST)*. (2021)
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12. Senzhang Wang, Jiannong Cao, Philip S. Yu, "Deep Learning for Spatio-Temporal Data Mining: A Survey", to appear in *IEEE Transactions on Knowledge and Data Engineering (TKDE)*. (2020)
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14. Jia Wang, Hongwei Wang, Miao Zhao, Jiannong Cao, Zhuo Li, Minyi Guo, "Joint Topic-Semantic-aware Social Matrix Factorization for Online Voting Recommendation", *Knowledge-Based Systems*, 210: 106433. (December 2020)
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