

Gary Ka Wai WONG

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PARTICULARS

EDUCATION

University of Illinois at Urbana-Champaign Ed.D. in Learning Design and Leadership	Urbana, IL, USA <i>Expected August 2021</i>
The University of Hong Kong LL.M. in Information Technology and Intellectual Property Law	Pokfulam, Hong Kong <i>December 2016</i>
University of Illinois at Urbana-Champaign Ed.M. in Learning Design and Leadership	Urbana, IL, USA <i>December 2014</i>
City University of Hong Kong Ph.D. in Computer Science	Kowloon Tong, Hong Kong <i>October 2012</i>
The Hong Kong University of Science and Technology M.Phil. in Electronic and Computer Engineering	Clear Water Bay, Hong Kong <i>May 2009</i>
Brigham Young University Hawaii B.S. in Computer Science and Mathematics (Double) Minor in Information Systems <i>Honor: Magna Cum Laude</i>	Laie, HI, USA <i>April 2006</i>

RESEARCH INTERESTS

K-12 coding education and computational thinking, STEM (Science, Technology, Engineering and Mathematics) education, mobile learning, learning design and technology, Augmented Reality (AR) and Virtual Reality (VR) in education, Learning analytics, wireless networking and mobile computing

DISSERTATION

Ph.D. Title: "Protocol Design and System Optimization in Wireless Communications and Networks"
Advisor: Prof. Xiaohua Jia, *IEEE Fellow*

M.Phil. Title: "A Comparative Study and Novel Heuristic Approach in the IEEE 802.16e Power Saving Mechanism"
Advisor: Prof. Danny H. K. Tsang, *IEEE Fellow*
Co-advisor: Prof. Qian Zhang, *IEEE Fellow*

AWARDS AND HONORS

- IEEE TALE 2017 Best Paper Award
- Outstanding Journal Article Published in the International Review of ETR&D Award, 2016
- IEEE TALE 2015 Best Paper Award
- Membership of Phi Kappa Phi National Honor Society, Brigham Young University Hawaii, 2012
- Performance Award 2010/11, The Community College at Lingnan University, 2012
- Young Alumni Award, Brigham Young University Hawaii, 2011

- Performance Award 2009/10, The Community College at Lingnan University, 2011
- Marquis Who's Who in the World, USA, 2010
- University Honor Roll (Dean Lists) Award, Brigham Young University Hawaii, 2004.
- Mathematics Department Scholarship Award, Brigham Young University Hawaii, 2004.
- ACM Upsilon Pi Epsilon Honor Scholarship Award, Brigham Young University Hawaii, 2004.
- Computer Science Department Scholarship Award, Brigham Young University Hawaii, 2003 - 2006.

ACADEMIC POSITIONS

- **Assistant Professor**, Unit of Human Communication, Development, and Information Sciences, Faculty of Education, The University of Hong Kong, August 2016 - Current.
BSIM3014 User-based Systems Analysis
BSIM4999 Final Year Projects
MEDD8861 Computational and Design Thinking for STEM Literacy in 21st Century MITE6330 Learning Design and Technology
MITE6333 Mobile and Ubiquitous Technology in Education
MITE7341 Digital Game-based Learning
MITE7532 Information Technology and Intellectual Property Law in Education
EDUR8032 Research on Developing Computational Thinking in 21st Century Learning

- **Lecturer**, Department of Mathematics and Information Technology, The Education University of Hong Kong, August 2012 - July 2016.
GEH1031/GED1032 Technology, Entertainment and Mathematics
GED1003/GEH1005 Mathematics Across Cultures and Time
MTH1065 Understanding Numbers
MTH2101 Mathematics Exploration with Technology
INT3029 Web Intelligence
INS3906 Honours Project
INT5018 e-Learning in Primary Schools
INT5032 e-Learning in School Education in a Green and Cloud Computing Environment
INT5046 Pedagogical Design and Practices in e-Learning Environment
MTH4088/5070 Problem-solving and Assessment in Mathematics
MTH5050 Recreational Mathematics
Supervision on Final Year Project (Education)
Shi-Tu Mentorship Scheme

Highlight of Student Evaluation of Teaching

2013-14, HKIED: 3.27; FLASS: 3.26; MIT: 3.26; **Individual: 3.42 (out of 4.00)**

2014-15, HKIED: 3.31; FLASS: 3.28; MIT: 3.34; **Individual: 3.38 (out of 4.00)**

- **Assistant Lecturer**, The Community College at Lingnan University, August 2009 - July 2012.
Dip/HD/AD Level
BUSA01 Quantitative Skills
ISMD11 Introduction to Computing
ISMD08 Computer Science
ISMD03 Mobile Applications in Business Services
ISMD12 Principles of Data Communication and Networking
ISMD13 Microsoft Windows
ISMD16 Introduction to Windows Server
ISMH08 Data Communications and Networking
ISMH09 Management Information Systems
ISMH10 Human Computer Interface
ISMH13 Knowledge-based Systems
ISMH15 Computer Ethics
ISMH17 Final Year Project
ISMH18 Windows Administration
ISMH20 Advanced Networking

- **Instructor**, Lingnan Institute of Further Education, January 2010 - November 2011.
Presentation Skills, BA(Hons) in Business Administration, Middlesex University
Information Security, Social Welfare Department, HKSAR
Management Information Systems, Professional Diploma in Business Management programme
- **Teaching Assistant**, Department of Computer Science, City University of Hong Kong, April 2010 - Aug 2011.
CS2363 Computer Programming
CS4274 Distributed Computing Technologies
- **Teaching Assistant**, Department of Electronic and Computer Engineering, The Hong Kong University of Science and Technology, January 2007 - August 2009.
COMP381 Design and Analysis of Computer Architectures
COMP211H Introduction to Software Engineering (Honor Track)
ELEC152 Computer Organization
ELEC315 Computer Communications Network
- **Teacher (Secondary Mathematics)**, Caritas Y. S. Institute for Further and Adult Education, August 2007 - February 2008.
- **Teaching Assistant**, Department of Computer Science, Brigham Young University Hawaii, August - December 2003; August - December 2004.

RESEARCH POSITIONS

- **Research Assistant**, Hong Kong Baptist University, August 2009 - February 2010
- **Research Assistant**, The Hong Kong University of Science and Technology, August 2008 - February 2009

RESEARCH GRANTS

- **Total Grants (as PI) = HKD18,834,490.00** (as of Sept 2019)
- **Principal Investigator**, Computational thinking education for junior secondary students pilot programme, 2017 - 2020
Funded by: The Hong Kong Jockey Club Charities Trust
Funding Source: General Award
Grant: HKD11,370,000.00
- **Principal Investigator**, Infusing engineering design process into science education in primary schools: Design-based research on students' constructionist learning approach, 2019 - 2022
Funded by: Research Grants Council
Funding Source: General Research Fund (GRF)
Grant: HKD320,500.00
- **Co-Investigator**, Learning and assessment for digital citizenship, 2016 - 2021
Funded by: Research Grants Council
Funding Source: Theme-based Research Scheme (TRS)
Grant: HKD13,504,000.00
- **Principal Investigator**, Enhancing language education with artificial reality neo-platform (eLEARN), 2017 - 2019
Funded by: Education Bureau (EDB)
Funding Source: Quality Education Fund (QEF)
Research Grant: HKD3,444,200.00
- **Co-Investigator**, Joint university collaboration to develop students competence and leadership in promoting integrated STEM education, 2015 - 2018
Funded by: University Grant Council (UGC)
Funding Source: Additional Funding from UGC on Initiatives
Research Grant: HKD5,915,800.00
- **Principal Investigator**, The school perceptions and affordances of computer-mediated reality for K-12 education, 2017 - 2018
Funded by: The University of Hong Kong
Funding Source: Seed Fund for Basic Research (SFBR)
Grant: HKD149,796.00

- **Principal Investigator**, The impact of coding education in Hong Kong primary schools: a longitudinal study, 2017 - 2020
Funded by: Research Grants Council
Funding Source: General Research Fund (GRF)
Grant: HKD547,500.00
- **Principal Investigator**, IEEE International Conference on Teaching, Assessment, and Learning for Engineering (TALE) 2017
Funded by: Croucher Foundation for Conferences and Seminars
Grant: HKD100,000.00
- **Co-Investigator**, Promoting Mobile Learning in the EdUHK and beyond through further development of a Mobile Learning Community, 2016-2018
Funded by: The Education University of Hong Kong
Funding Source: Teaching Development Grant (TDG)
Grant: HKD687,300.00
- **Principal Investigator**, Knowledge Transfer on STEM Education, Coding Education and Computational Thinking, 2016
Funded by: The Education University of Hong Kong
Funding Source: Seed Funding for Knowledge Transfer Scheme of the Dean's Research Fund
Research Grant: HKD53,000.00
- **Principal Investigator**, Using Learning Analytics to Discover Serendipitous Learning in Moodle for Formative Assessment in Higher Education, 2016 - 2017
Funded by: The Education University of Hong Kong
Funding Source: Teaching Development Grants (TDG)
Research Grant: HKD199,400.00
- **Co-Investigator**, Developing Coding Competency and Computational Thinking Among Learners in HKIED with Interest in Mathematics Education, 2015 - 2018
Funded by: University Grant Council (UGC)
Funding Source: Additional Funding from UGC on Initiatives
Research Grant: HKD2,536,000.00
- **Principal Investigator**, Energy-Efficient Computation Offloading Mechanisms in Mobile Cloud Computing, 2015 - 2016
Funded by: The Education University of Hong Kong
Funding Source: Internal Research Grant
Research Grant: HKD100,000.00
- **Principal Investigator**, Flipped Learning Initiative Programme for Primary Education (FLIPPEd), 2015 - 2016
Funded by: Education Bureau (EDB)
Funding Source: Quality Education Fund (QEF)
Research Grant: HKD375,800.00
- **Principal Investigator**, The Impact of Coding Education in Hong Kong Primary Schools: a Pilot Study, 2014 - 2015
Funded by: The Education University of Hong Kong
Funding Source: Departmental Small Research Grant
Research Grant: HKD26,204.00
- **Co-Principal Investigator**, Developing and Evaluating Learning Analytics Platform to Support University Teachers for Pedagogical Decision-making in Fostering Reflective Engagement of Students, 2014 - 2017
Funded by: University Grant Council (UGC)
Funding Source: UGC Additional L&T Related Initiatives
Research Grant: HKD7,536,623.00
- **Principal Project Supervisor**, A Case Study on the Influence of Parent's Belief to Children's Motivation in Learning Mathematics at Preschool Level, 2013 - 2014
Funded by: The Education University of Hong Kong
Funding Source: Learning Development Grants
Research Grant: HKD15,970.00
- **Principal Investigator**, Understanding Technology Acceptance in Pre-service Teachers of Primary Mathematics: A Pilot Study in Hong Kong, 2013 - 2014
Funded by: The Education University of Hong Kong

Funding Source: Departmental Small Research Grant

Research Grant: HKD26,064.00

- **Principal Investigator**, Social-Based Routing in Delay Tolerant Networks with Realistic Social Characteristics, 2013 - 2015
Funded by: The Education University of Hong Kong
Funding Source: The Deans Research Fund: Early Career Researchers (ECR)
Research Grant: HKD296,600.00
- **Co-Supervisor**, Bring Your Own Device (BYOD) for Reflective Engagement of Learners in Digital Classroom, 2013 - 2015
Funded by: The Education University of Hong Kong
Funding Source: Teaching Development Grant (TDG)
Research Grant: HKD606,300.00
- **Principal Investigator**, Towards Bridging the Digital Divide between Teacher and Student Groups, 2013 - 2015
Funded by: The Education University of Hong Kong
Funding Source: Internal Research Grant
Research Grant: HKD99,500.00
- **Co-Investigator**, Fostering a Mobile Learning Community: the Use of Mobile Technologies in Studying Subject Knowledge Through English in Tertiary Education in Hong Kong, 2013 - 2015
Funded by: Research Grant Council (RGC)
Funding Source: Start-up Fund for the Establishment of Communities of Practice
Research Grant: HKD650,000.00
- **Principal Investigator**, Social-Aware Routing Protocol for Delay-Tolerant Mobile Ad Hoc Networks (MANETs), 2012 - 2013
Funded by: The Education University of Hong Kong
Funding Source: Start-up Research Grant
Research Grant: HKD29,956.00
- **Principal Investigator**, Development and Implementation of an Integrated Student Information System (ISIS) for Supporting Teaching and Learning in Hong Kong Post-Secondary Institutions, 2011 - 2012
Funded by: Education Bureau, Hong Kong
Funding Source: Quality Enhancement Grant Scheme
Research Grant: HKD1,680,000.00

INDUSTRIAL EXPERIENCE

- **Application Software Analyst, Brigham Young University Hawaii** April 2006 - January 2007. Assisted the university in the migration process from the Datatel ERP system to Oracle/PeopleSoft system. Developed PeopleSoft application in Campus Communities related to student module. Designed codes, created application interfaces, and built queries using Oracle SQL, SQR, Applications Designers, and Oracle SQL Developer.
- **Programmer, Brigham Young University Hawaii** July 2004 - April 2006. Helped generate query reports from database for different university departments. Maintained the Datatel ERP system user roles and security. Conducted training for administrative staff in using the ERP for HR, financial services, student records, and admissions.
- **Web-based Training Developer, Rapid Intake Inc.**, January 2004 - July 2004. University approved internship position in the Department of Computer Science. Developed web-based training application using HTML and DHTML-based pages to provide high-profile, asynchronous training for Hewlett-Packard (HP) employees and vendors. Implemented EPDM system Web-Based Training using JavaScript. Built up and deployed the application utilizing the development.
- **Junior Accountant Clerk, Polynesian Cultural Center**, September 2002 - July 2003. Prepared general inventory, daily and monthly sales reports, balance sheet entry. Provided IT support for the Concession Department, such as case register programming, cash register maintenance, and desktop client troubleshooting.

PUBLICATIONS

SCHOLARLY BOOKS, MONOGRAPHS AND CHAPTERS

1. Yang, J., **Wong, G. K. W.** & Dawes, C. (2018). An exploratory study on learning attitude in computer programming for the twenty-first century. In L. Deng et al. (Eds), *New Media for Educational Change*. Singapore: Springer.
2. Law, N., Woo, D., de la Torre, J. & **Wong, G. K. W.** (2018). A global framework of reference on digital literacy skills for indicator 4.4.2. *UNESCO Institute for Statistics*, 146.
3. **Wong, G. K. W.** & Notari, M. (2018). Exploring immersive language learning using virtual reality. In J. M. Spector et al. (Eds), *Learning, Design, and Technology. An International Compendium of Theory, Research, Practice, and Policy*. Gewerbestrasse, Switzerland: Springer.
4. Ozcinar, H., **Wong, G. K. W.** & Ozturk, H. T. (2018). Teaching computational thinking in primary education. Hershey, PA: IGI Global.
5. **Wong, G. K. W.**, Jiang, S. & Kong, R. (2018). Computational thinking and multifaceted skills: A qualitative study in primary schools. In H. Ozturk(Ed.), *Teaching computational thinking in primary education* (pp.78-101). Hershey, PA: IGI Global.
6. **Wong, G. K. W.** & Yang, M. (2017). Using ICT to generate instant and asynchronous feedback via technology-enabled formative assessment tasks. In S. Kong (Ed.), *Emerging Practices in Scholarship of Learning and Teaching in a Digital Era*. (pp. 289-309) Springer: Singapore.
7. **Wong, G. K. W.** & Fung, C. (2016). *Handbook for flipped classroom in primary school*. Hong Kong: Quality Education Fund.
8. **Wong, G. K. W.** (2016). A new wave of innovation using mobile learning analytics for flipped classroom. In D. Churchill, J. Lu, T. Chiu, & B. Fox (Eds.), *Mobile Learning Design: Theories and Applications* (189-218). Singapore: Springer.
9. **Wong, G. K. W.** & Cheung, H. (2015). *Flipped classroom for student engagement in higher education*. Nadya Gotsiridze-Columbus, Student Engagement: Leadership Practices, Perspectives and Impact of Technology (1-16). Hauppauge, NY: Nova Science Publishers, Inc.
10. **Wong, G. K. W.** (2015). Social context computing in the application of wireless networking. P. A. Laplante, *Encyclopedia of Computer Science and Technology* (1-36). New York: Taylor & Francis Group.
11. **Wong, G. K. W.** (2011). Design and development of outcome-based computer science education in sub-degree programmes. K. Poon, K. Chan, L. Yung & W. Li (Eds.), *Outcome-based approach: The theory and practices of teaching and learning in associate degree programmes* (69-79). Hong Kong: Colormax Commercial Printing Company Limited.

JOURNAL PUBLICATIONS

12. Saxena, A., Lo, C., Hew, K. & **Wong, G. K. W.** (2019). Designing unplugged and plugged activities to cultivate computational thinking: An exploratory study in early childhood education. *The Asia-Pacific Education Researcher*, X(X), XX-XX. [SSCI impact factor: 0.846]
13. Jiang, S. & **Wong, G. K. W.** (2019). Primary school students intrinsic motivation to plugged and unplugged approach to develop computational thinking. *International Journal of Mobile Learning and Organisation*, X(X), XX-XX. [SJR impact factor: 0.637]
14. Weng, X., Xie, H. & **Wong, G. K. W.** (2019). Guiding principles of visual-based programming for children's language learning. *International Journal of Services and Standards*, 12, 275-292.
15. **Wong, G. K. W.** & Cheung, H. (2018). Exploring children's perceptions of developing twenty-first century skills through computational thinking and programming. *Interactive Learning Environments*, X(X), XX-XX. [SSCI impact factor: 1.604]
16. **Wong, G. K. W.** (2018). SROR: Designing a social-based routing protocol for context-aware ubiquitous learning. *International Journal of Mobile Learning and Organisation*, 12(1), 18-41. [SJR impact factor: 0.637]
17. **Wong, G. K. W.** (2016). The behavioral intentions of Hong Kong primary teachers in adopting educational technology. *Educational Technology Research and Development (ETRD)*, 64(2), 313-338. [SSCI impact factor: 2.115]
18. Wong, C., **Wong, G. K. W.**, & Indiatsi, J. (2016). Teacher candidates perceptions of strengths and inadequacies of instructing English Language Learners post clinical experience. *Journal of Cultural Diversity*, 23(2), 57-64.

19. **Wong, G. K. W.** (2015). Understanding technology acceptance in pre-service teachers of primary mathematics in Hong Kong. *Australasian Journal of Educational Technology (AJET)*, 32(6), 713-735. [SSCI impact factor: 1.171]
20. **Wong, G. K. W.** (2014). Engaging students using their own mobile devices for learning mathematics in classroom discourse: A case study in Hong Kong. *International Journal of Mobile Learning and Organisation*, 8(2), 143-165. [SJR impact factor: 0.637]
21. **Wong, G. K. W.** (2014). Joint SINR-based link scheduling with max-min traffic delivery ratio in wireless multihop network systems. *International Journal of Business and Systems Research*, 8(2), 191-211.
22. **Wong, G. K. W.**, Liu, H., Chu, X., Leung, Y. W., & Xie, C. (2013). Efficient broadcasting in multi-hop wireless networks with a realistic physical layer. *Special Issue on Large Scale and Sustainable WSN, Ad Hoc Networks*, 11(4), 1305-1318. [SCI impact factor: 3.490]
23. **Wong, G. K. W.**, Hui, W., & Yuk, S. (2013). Building a final year project on social network platform: Challenges and opportunities. *International Journal of Information and Education Technology*, 3(2), 201-205.
24. **Wong, G. K. W.**, & Jia, X. (2013). An efficient scheduling scheme for hybrid TDMA and SDMA systems with smart antennas in WLANs. *ACM-Springer Journal of Wireless Networks*, 19 (2), 259-271. [SCI impact factor: 1.981]
25. **Wong, G. K. W.**, & Cheung, H. Y. (2011). Outcome-based teaching and learning in computer science education at sub-degree level. *International Journal of Information and Education Technology*, 1(1), 40-46.
26. **Wong, G. K. W.**, Zhang, Q., & Tsang, D. H. K. (2010). Switching cost minimization for the IEEE 802.16e mobile WiMAX sleep mode operation. *Special Issue Journal, Wireless Communications and Mobile Computing (WCMC) Journal*, 10(12), 1576-1588. [SCI impact factor: 1.396]
27. Kong, L., **Wong, G. K. W.**, & Tsang, D. H. K. (2009). Performance study and system optimization on sleep mode operation in IEEE 802.16e. *IEEE Transactions on Wireless Communications*, 8(9), 4518-4528. [SCI impact factor: 4.951]

CONFERENCE PAPERS

28. **Wong, G. K. W.** & Jiang, S. (2019, April). *Developing children's computational thinking: Algorithmic thinking and debugging*. Proceedings in The American Educational Research Association (AERA) Annual Meeting, Toronto, Canada.
29. Yang, J., **Wong, G. K. W.**, & Dawes, C. (2018, August). An exploratory study on learning attitude in computer programming for 21st century. *In Proceedings of HKAECT 2018 International Conference*, IEEE, Hong Kong.
30. **Wong, G. K. W.**, Zheng, S., Lau, H. & Leung, E. (2018, June). Teachers Professional Development for Integrating STEM Education in Primary Curriculums, *In Proceedings of 5th International Mobile Learning Festival*, Singapore.
31. **Wong, G. K. W.**, Zheng, S., Lau, H. & Leung, E. (2018, June). Teachers Professional Development for Integrating Engineering-led STEM Education in Primary Curriculums, *The 21st Global Chinese Conference on Computers in Education (GCCCE) 2018*, Guangzhou, China. **(Best Paper Award in Technology Design (Runner-Up))**
32. Jiang, S. & **Wong, G. K. W.** (2018, May). Developing primary school students' computational thinking through coding. *The 21st Global Chinese Conference on Computers in Education (GCCCE) 2018*, Guangzhou, China.
33. Zheng, S. & **Wong, G. K. W.** (2018). Teachers' perceptions of professional development in integrated STEM education in primary schools. *In Proceedings of IEEE Global Engineering Education Conference (EDUCON) 2018*, IEEE, Spain.
34. Jiang, S. & **Wong, G. K. W.** (2018, February). Are Children More Motivated with Plugged or Unplugged Approach to Computational Thinking?. *SIGCSE '18 Proceedings of the 49th ACM Technical Symposium on Computer Science Education (Poster Session)*, ACM, Maryland, USA.
35. **Wong, G. K. W.** (2017, December). Integrative Learning in K-12 STEM Education: How to Prepare the First Step?. *In Proceedings of IEEE International Conference on Teaching, Assessment and Learning in Engineering (TALE) 2017*, IEEE, Hong Kong. [acceptance rate: 16%]
36. **Wong, G. K. W.** & Huen, M. H. (2017, March). A Conceptual Model of Integrated STEM Education in K-12. *In Proceedings of IEEE International Conference on Teaching, Assessment and Learning in Engineering (TALE) 2017*, IEEE, Hong Kong. [acceptance rate: 16%]

37. Weng, X. & **Wong, G. K. W.** (2017, March). Integrating Computational Thinking into English Dialogue Learning through Graphical Programming Tool . In *Proceedings of IEEE International Conference on Teaching, Assessment and Learning in Engineering (TALE) 2017*, IEEE, Hong Kong. [acceptance rate: 16%]
38. Kong, R. & **Wong, G. K. W.** (2017, March). Teachers Perception of Professional Development in Coding Education. In *Proceedings of IEEE International Conference on Teaching, Assessment and Learning in Engineering (TALE) 2017*, IEEE, Hong Kong.
39. Jiang, S. & **Wong, G. K. W.** (2017, March). Assessing Primary School Students Intrinsic Motivation of Computational Thinking. In *Proceedings of IEEE International Conference on Teaching, Assessment and Learning in Engineering (TALE) 2017*, IEEE, Hong Kong. (**Best Paper Award**) [acceptance rate: 16%]
40. **Wong, G. K. W.**, Li, Simon Y. K. & Wong, W. Y. (2016, December). Analyzing Academic Discussion Forum Data with Topic Detection and Data Visualization. In *Proceedings of IEEE International Conference on Teaching, Assessment and Learning in Engineering (TALE)*, IEEE, Bangkok, Thailand
41. Li, Simon Y. K., & **Wong, G. K. W.** (2016, December). Visualizing the Asynchronous Discussion Forum Data with Topic Detection. *The 9th ACM SIGGRAPH conference and exhibition on computer graphics and interactive techniques in Asia, Symposium on Education*, Macau. [acceptance rate: 28%]
42. Wong, G. K. W. & Li, Simon Y. K. (2016, June). Academic Performance Prediction Using Chance Discovery from Online Discussion Forums. *Proceedings of 2016 IEEE 40th Annual Computer Software and Applications Conference (COMPSAC 2016)*, Atlanta, Georgia. [acceptance rate: 18%]
43. Zhu, K., Wong, G. K. W., Ma, X. & Huen, M. H. (2016, June). How Different Input and Output Modalities Support Coding as a Problem-Solving Process for Children. *ACM SIGCHI Interaction Design and Children (IDC) 2016*, Manchester, UK. [acceptance rate: 31%]
44. Li, Simon Y. K., & **Wong, G. K. W.** (2016, June). Educational Data Mining using Chance Discovery from Discussion Board. *The 20th Global Chinese Conference on Computers in Education*, Hong Kong.
45. **Wong, G. K. W.**, Zhu, K., Ma, X. & Huen, M. H. (2016, March). The Development of Internationalized Computational Thinking Curriculum in Hong Kong Primary Education. In *Proceedings of The 47th ACM Technical Symposium on Computing Science Education 2016*, Memphis, TN, USA. [acceptance rate: 35%]
46. **Wong, G. K. W.**, Cheung, H. Y., Ching, C. C., & Huen, M. H. (2015, December). School Perceptions of Coding Education in K-12: A Large Scale Quantitative Study to Inform Innovative Practices. In *Proceedings of IEEE International Conference on Teaching, Assessment and Learning in Engineering (TALE)*, IEEE, Zhuhai, China. (**Best Paper Award**) [Acceptance Rate: 19.6%]
47. **Wong, G. K. W.**, & Cheung, H. Y. (2015, November). *Can we flip the formative assessment of students too in flipped classroom?* . Proceedings of the 23rd International Conference on Computers in Education (ICCE), Hangzhou, China.
48. Mark, K. P. & **Wong, G. K. W.** (2015, October). *Is Information Technology General Education Effective for Non-Engineering Major Students? An Exploratory Study on Ethnically Chinese Classrooms*. The 45th Annual Frontiers in Education (FIE) Conference, Texas, USA.
49. Yang, M., **Wong, G. K. W.**, Sin, K., Lee, T., Lam, B., & Han, C. (2015, June). *The role of dialogic feedback in supporting students active learning in higher education*. Proceedings in The American Educational Research Association (AERA) Annual Meeting, Chicago, Illinois, USA.
50. **Wong, G. K. W.** (2015, May). *A new wave of innovation using mobile learning analytics for flipped classroom*. The 2nd International Mobile Learning Festival 2015, May 22-23, Hong Kong.
51. **Wong, G. K. W.** & Cheung, H. Y. (2015, May). *Empirical Study of Cloud Technologies in Flipped Classroom for Mathematics Education*. Proceedings of The Global Chinese Conference on Computers in Education(GCCCE) 2015, Taiwan.
52. **Wong, G. K. W.**, Chang, Y., Jia, X., Wong, H. M., & Hui, W. Y. (2015, February). *Performance evaluation of social relation opportunistic routing in dynamic social networks*. IEEE Proceedings of International Conference on Computing, Networking and Communications 2015, Anaheim, California, USA. [Acceptance rate: 30%]
53. Wang, Q. Y., & **Wong, G. K. W.** (2015, January). *How parent's belief influence children's motivation in learning mathematics at pre-school level*. Proceedings of 13th Annual Hawaii International Conference on Education 2015, Honolulu, Hawaii, USA.
54. **Wong, G. K. W.**, & Cheung, H. Y. (2015, January). *Mobile learning analytics for sustaining flipped learning*. Proceedings of 13th Annual Hawaii International Conference on Education 2015, Honolulu, Hawaii, USA.

55. **Wong, G. K. W.**, Ching, C. C., Mark, K. P., Tang, J. K. T., Lei, C. U., Cheung, H. Y., & Chui, H. L. (2015, January). *Impact of computational thinking through coding in K-12 education: a pilot study in Hong Kong*. Proceedings of the 11th International Conference on Technology Education in the Asia Pacific Region, Hong Kong.
56. Wang, Q. & **Wong, G. K. W.** (2014, November). *A case study on the influence of parent's belief to children's motivation in learning mathematics at preschool level*. Proceedings of the Asia Pacific Educational Research Association International Conference 2014 (APER 2014), Hong Kong.
57. **Wong, G. K. W.**, & Cheung, H. Y. (2014, November). *Analytical evaluation of technology acceptance in teachers training of primary mathematics education in Hong Kong: A preliminary study*. Proceedings of the 22nd International Conference on Computers in Education (ICCE), Nara, Japan.
58. Cheung, H. Y., **Wong, G. K. W.** (2014, October). *Flipped classroom in Hong Kong higher education: An experience sharing*. Proceedings of 6th Annual Asian Conference on Education (ACE-2014), Osaka, Japan.
59. **Wong, G. K. W.** (2014, October). *Cloud computing for collaborative knowledge construction: A case with Google drive*. Proceedings of 6th Annual Asian Conference on Education (ACE-2014), Osaka, Japan.
60. **Wong, G. K. W.**, & Cheung, H. Y. (2014, October). *Technology acceptance by in-service teachers in Hong Kong: preliminary results*. Proceedings of the Second Asian Conference on Society, Education and Technology (ACSET 2014), Osaka, Japan.
61. Yang, M., Bryant, D., Han, C., Lam, B., Lee, T., Sin, K., & **Wong, G. K. W.** (2014, June). *Exploring teachers and students experiences of assessment feedback in higher education*. Proceedings of Global Curriculum & Instruction Network (GCIN) Conference 2014, Hong Kong.
62. **Wong, G. K. W.** (2013, October). *Are we ready to engage students with our own mobile devices?*. Proceedings of 5th Annual Asian Conference on Education (ACE-2013), Osaka, Japan.
63. **Wong, G. K. W.**, & Jia, X. (2013, January). *A novel socially-aware opportunistic routing algorithm in mobile social networks*. IEEE Proceedings of International Conference on Computing, Networking and Communications (ICNC) 2013, San Diego, CA, USA. (Acceptance rate: 25.2%, 133/527)
64. **Wong, G. K. W.** (2012, October). *Toward an authentic leadership in Hong Kong sub-degree education: Personal philosophical approach*. Proceedings of 4th Annual Asian Conference on Education (ACE-2012), Osaka, Japan.
65. **Wong, G. K. W.**, & Cheung, H. Y. (2011, May). *Evaluation of outcome-based approach in computer science education at sub-degree level*. Proceedings of IEEE 3rd International Conference on Communication Software and Networks (ICCSN'11), Xian, China.
66. **Wong, G. K. W.**, & Jia, X. (2010, December). *Downlink scheduling in WLANs with SDMA using multiple smart antennas*. Proceedings of 5th Beijing-Hong Kong International Doctoral Forum, Poster Session, Beijing, China.
67. **Wong, G. K. W.**, Chow, W., Wong, K., Chow, S., Lam, J., & Cheung, H. Y. (2010, October). *Needs assessment and design of course management system (CMS) using open and community source frameworks in post-secondary institutions*. the Proceedings of ACM SIGUCCS 2010, Norfolk, Virginia.
68. **Wong, G. K. W.**, Chow, W., Wong, K., Chow, S., Lam, J., & Cheung, H. Y. (2010, September). *An implementation of Sakai open source course management system in post-secondary education*. Proceedings of IEEE International Conference on Educational and Information Technology (ICEIT'10), Chongqing, China.
69. **Wong, G. K. W.**, Zhang, Q., & Tsang, D.H. K. (2009, December). *Joint optimization of power saving mechanism in the IEEE 802.16e mobile WiMAX*. Proceedings of IEEE Global Communications Conference (GLOBECOM) 2009, Honolulu, Hawaii. [Acceptance rate: 34.8%, 1104/3200]
70. **Wong, G. K. W.**, Zhang, Q., & Tsang, D. H. K. (2009, October). *Switching cost minimization for the IEEE 802.16e mobile WiMAX sleep mode operation*. Proceeding of ACM International Wireless Communications and Mobile Computing Conference (IWCMC) 2009, Leipzig, Germany.
71. **Wong, G. K. W.**, & Fife, L. (2006, November). *Needs assessment for campus wide network services at Brigham Young University Hawaii using IEEE 802.16 wireless network infrastructure*. Proceedings of the 34th Annual ACM SIGUCCS conference on User services, Edmonton, Canada.

OTHER REPORTS

72. **Wong, G. K. W.** (2012). *Protocol design and system optimization in wireless communications and networks*. Hong Kong: City University of Hong Kong.

73. **Wong, G. K. W.** (2009). *A comparative study and novel heuristic approach in the IEEE 802.16e power saving mechanism*. Hong Kong: The Hong Kong University of Science and Technology.
74. **Wong, G. K. W.** (2010). *Rate adaptive and power controlled links scheduling for wireless mesh networks with physical interference model*. Hong Kong: City University of Hong Kong.
75. **Wong, G. K. W.** (2009). *A survey of energy efficiency in wireless multimedia sensor networks*. Hong Kong: The Hong Kong University of Science and Technology.
76. **Wong, G. K. W.** (2008). *Architecture of mobile IPTV over the IEEE 802.16e mobile WiMAX network: A survey*. Hong Kong: The Hong Kong University of Science and Technology.

PATENTS & APPLICATIONS

1. Energy Saving

- L. Kong, **Gary K. W. Wong**, and Danny H. K. Tsang, "Sleep Mode Selection Employing a Semi-Markov Decision Process," US Patents.

MASTER/DOCTORAL THESIS SUPERVISION

- **Supervisor**, Shan (Joyce) Jiang, PhD(HKU), 2017 - Current
- **Supervisor**, Shudan (Catherine) Zheng, PhD(HKU), 2017 - Current
- **Supervisor**, Xiaoyan Lai, PhD(HKU), Tin Ka Ping Foundation Postgraduate Fellowship, 2018 - Current
- **Supervisor**, Jiachu Ye, PhD(HKU), Hong Kong Postgraduate Fellowship, 2018 - Current
- **Supervisor**, Shuhan Zhang, PhD(HKU), 2019 - Current
- **Supervisor**, Anika Saxena, EdD(HKU), 2017 - Current
- **Co-Supervisor**, Xiyue Tan, PhD(HKU), 2018 - Current
- **Co-Supervisor**, Ka Lok Leung, PhD(HKU), 2017 - Current
- **Co-Supervisor**, Zainuddin Zamzami, PhD(HKU), 2016 - Current
- **Associate Supervisor**, "Implement Good Feedback Practice in Primary English Flipped Classroom To Promote Self-regulated Learning," Doctor of Education, EdUHK, 2016

PROGRAMMES/COURSES DEVELOPMENT

- **Programme Development**, Postgraduate Diploma in Education (Design and Technology), EdUHK, 2015
- **Course Development**, GEH1031/GED1032 Technology, Entertainment and Mathematics, EdUHK, 2013

INVITED TALKS

1. **Panel Discussion Speaker**, *Maker and Innovation New Vision in Robotics*, HKTDC Hong Kong Electronics Fair (Spring Edition), 2016
2. **Keynote Speech**, *Developing Computational Thinking of Children through Coding Education: From the West to the East*, Technology-Enhanced Teaching and Learning: Development and Practice, HKIED 2016
3. **Guest Speaker**, Teacher Development Day (e-learning in Chinese and Mathematics), AD&FD of POHL Mrs Cheng Yam On School, 2016
4. **Keynote Speech**, HKIED Inter-Primary School Mobile Apps Design Competition 2016
5. **Guest Speaker**, Teacher Development Day (flipped classroom), Kwun Tong Government Secondary School, 2015
6. **Guest Speaker**, Teacher Development Day (flipped classroom), AD&FD POHK Leung Sing Tak College, 2015
7. **Guest Speaker**, Teacher Development Day (e-learning), Sha Tau Kok Central Primary School, 2015
8. **Guest Speaker**, Teacher Development Day (e-learning), Po Leung Kuk Tin Ka Ping Millennium Primary School, 2014, 2015
9. **Guest Speaker**, Teacher Development Day (e-learning), Jockey Club Ti-I College, 2015

10. **Poster Board Exhibition, Open Class Observation**, Learning and Teaching Conference at HKIED Festival 2015
11. **Keynote Speech**, 4th International Conference on Intelligent Information Processing (ICIIP 2015), Chengdu China, June, 2015.
12. **Keynote Speech**, 4th International Conference on Intelligent Information Networks (ICIIN 2015), Singapore, February, 2015.
13. **Guest Speaker** *Sharing on Community Practice (CoP): Fostering a Mobile Learning Community Seminar: Mobile Flipped Classroom for Mathematics Teaching with Schoology*. The Hong Kong Institute of Education, Hong Kong, November, 2014.
14. **Guest Speaker** *Parent's Day: e-Learning in Primary School*. Po Leung Kuk Tin Ka Ping Millennium Primary School, September, 2014.
15. **Guest Speaker** *Teacher Development Day: Teaching and Learning with Mobile Devices*. Po Leung Kuk Tin Ka Ping Millennium Primary School, September, 2014.
16. **Guest Speaker** *MIT Department Seminar: Flipped Classroom for Learning Mathematics in Real World*. The Hong Kong Institute of Education, Hong Kong, June, 2014.
17. **Keynote Speech**, *Performance Evaluation of Social Relation Opportunistic Routing (SROR) in Dynamic Social Networks*, 3rd International Conference on Intelligent Information Processing 2014, Singapore, May, 2014.
18. **Keynote Speech**, *Research in Mobile Cloud Computing: Current and Future*, 3rd International Conference on Intelligent Information Networks 2014, Hong Kong, February, 2014.
19. **Guest Speaker** *Sharing on Community Practice (CoP): Fostering a Mobile Learning Community Seminar: Are we ready to engage students with our own mobile devices?*. The Hong Kong Institute of Education, Hong Kong, November, 2013.
20. **Guest Speaker** *New Pedagogy of Problem Solving in Mathematics*. Faculty of Education, Loei Rajabhat University, Thailand, August, 2013.
21. **Guest Speaker** *Are We Ready to Engage Students with Our Own Mobile Devices?* HKIED Mini-Conference on Learning and Teaching, Parallel Session on e-Learning, Hong Kong, April, 2013.
22. **Keynote Speech**, "Realizing the Potentials of Social Networking with Mobile Devices: Current Opportunities and Future Challenges", 2013 the 3rd International Conference on Computer and Communication Devices (ICCCD 2013), Malaysia, June, 2013.
23. **Guest Speaker** *MIT Department Seminar: Through Inquiry-based Learning Model to Minimize the Distance between Teachers and Students*. The Hong Kong Institute of Education, Hong Kong, June, 2013.
24. **Guest Speaker** *Workshop: Enhancing Our Teaching Pedagogy with Technologies*. CCLU and LIFE Staff Development Day, Lingnan University, Hong Kong, June, 2012.
25. **Guest Speaker** *Video Game Programming: Behind the Scene*. Other Learning Experiences (OLE) Secondary School Visit, Hong Kong, May, 2011.
26. **Guest Speaker** *The First Person to Invent a Car That Runs on Water May Be Sitting Right in Your Classroom*. Other Learning Experiences (OLE) Secondary School Visit, Hong Kong, May, 2011.

CONFERENCE ORGANIZATION

- Member, International Liaison Committee, ACM Technical Symposium on Computer Science Education (SIGCSE 2020)
- Member, International Liaison Committee, ACM Technical Symposium on Computer Science Education (SIGCSE 2019)
- Member, International Liaison Committee, ACM Technical Symposium on Computer Science Education (SIGCSE 2018)
- PC Member, the Sixth International Workshop on ICT Trends in Emerging Economies (WICTTEE2018)
- PC Member, 2018 Global Chinese Conference on Computers in Education (GCCCE 2018)
- General Co-Chair, 2017 IEEE International Conference on Teaching, Assessment, and Learning for Engineering (TALE 2017)
- Member, International Liaison Committee, ACM Technical Symposium on Computer Science Education (SIGCSE 2017)

- Member, International Liaison Committee, ACM Technical Symposium on Computer Science Education (SIGCSE 2016)
- Technical Program Co-Chair, 2015 IEEE International Conference on Teaching, Assessment, and Learning for Engineering (TALE 2015)
- PC Member, 15th IEEE International Conference on Advanced Learning Technologies 2015 (ICALT 2015)
- PC Member, 2015 Global Chinese Conference on Computers in Education (GCCCE 2015)
- Member, International Liaison Committee, ACM Technical Symposium on Computer Science Education (SIGCSE 2015)
- Conference Co-Chair, 2015 4th International Conference on Intelligent Information (ICIIN 2015)
- Conference Co-Chair, 2015 3rd International Conference on Intelligent Mechatronics and Automation (ICIMA 2015)
- Conference Co-Chair, 2015 2nd International Conference on Intelligent Agriculture (ICOIA 2015)
- TPC Member, IEEE 2nd International Conference on Technology, Informatics, Management, Engineering and Environment (TIME-E 2014)
- TPC Member, IEEE Symposium on Industrial Electronics & Applications (ISIEA2014)
- TPC Member, IEEE Symposium on Wireless Technology & Applications (ISWTA 2014)
- TPC Member, IEEE International Conference on Computer, Communication, and Control Technology (I4CT 2014)
- TPC Member, IEEE International Conference on Intelligent Autonomous Agents, Networks and Systems (INAGENTSYS 2014),
- TPC Member, Springer International Workshop on Mobile Applications (MobiApps 2014)
- TPC Member, IEEE Sixth International Conference on Computational Intelligence and Communication Networks (CICN 2014)
- TPC Member, IEEE International Workshop on the Design and Performance of Networks on Chip (DPNoC 2014)
- PC Member, Practice-driven Research, Teacher Professional Development and Policy of ICT in Education, International Conference on Computers in Education (ICCE) 2014
- PC Member, 14th IEEE International Conference on Advanced Learning Technologies 2014 (ICALT 2014)
- TPC Member, IEEE Colloquium on Humanities, Science and Engineering Research 2014 (CHUSER 2014)
- TPC Member, IEEE Symposium on Computer Applications and Industrial Electronics 2014 (ISCAIE 2014)
- Program Chair, 2014 the 3rd International Conference on Wireless and Optical Communications (ICWOC 2014)
- Program Chair, 2014 the 3rd International Conference on Intelligent Information Processing (ICIIP 2014)
- Program Chair, 2014 the 6th International Conference on Communication Software and Networks (ICCSN 2014)
- PC Member, 2014 Global Chinese Conference on Computers in Education (GCCCE 2014)
- Co-Chair, 2014 3rd International Conference on Intelligent Information Networks (ICIIN 2014)
- Co-Chair, 2014 2nd International Conference on Intelligent Mechatronics and Automation (ICIMA 2014)
- Program Co-Chair, 2014 International Conference on Mechatronics and Robotics (ICMR 2014)
- Committee Member, International Liaison Committee, ACM Technical Symposium on Computer Science Education (SIGCSE 2014)
- TPC Member, 2013 IEEE International Conference on Information and Communication Technology (ICoICT 2013)
- PC Member, Second International Workshop on ICT Trends in Emerging Economies (WICTTEE 2013), in conjunction with the International Conference on Computers in Education 2013
- TPC Member, 2013 IEEE Conference on Wireless Sensors (ICWiSe2013)
- Program Chair, 2013 the 3rd International Conference on Computer and Communication Devices (ICCCD 2013)
- PC Member, Global Chinese Conference on Computers in Education 2013, Workshop on the Trend of Mobile and Ubiquitous Learning

- PC Member, International Conference on Computers in Education (ICCE) 2013
- TPC Member, 2013 IEEE Symposium on Humanities, Science & Engineering Research (SHUSER 2013)
- TPC Member, 2013 2nd International Conference on Educational and Information Technology (ICEIT 2013), February 2-3, 2013, Hong Kong
- TPC Member, 7th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS 2013)
- Session Chair, the 4th Annual Asian Conference on Education (ACE 2012) - Adult, Vocational, Distance, and Professional Learning Education
- TPC Member, IEEE Student Conference on Research and Development 2012 (SCORED 2012)
- Committee Member, Local Arrangement Committee, IEEE International Conference on Teaching, Assessment and Learning for Engineering 2012 (TALE 2012)
- PC Member, The 20th International Conference on Computers in Education (Special Session of ICCE 2012: ICCE Conference on Technology, Pedagogy and Education)
- Member, ACM Technical Symposium on Computer Science Education (SIGCSE 2013), International Liaison Committee
- TPC Member, IEEE Asia-Pacific Conference on Applied Electromagnetics (APACE 2012)
- TPC Member, IEEE Symposium on Green Technology and Systems (ISGTS 2012)
- TPC Member, IEEE Symposium on Industrial Electronics and Applications (ISIEA 2012)
- TPC Member, IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA 2012)
- TPC Member, IEEE Symposium on Wireless Technology and Applications (ISWTA 2012)
- TPC Member, IEEE World Congress on Computational Intelligence (Special Session: FUZZ-IEEE, WCCI 2012)

EDITORIAL AND PROFESSIONAL SERVICE

- Founder (2017) - STEM Academy of Hong Kong
- Co-Editor (2017) - Teaching Computational Thinking in Primary Education, IGI
- Editor-in-Chief (2012 - Current) - *Journal of Advances in Computer Networks (JACN)*, Quarterly, IACSIT
- Editorial Board Member (2013 - Current) - *International Journal of Business and Systems Research (IJBSR)*
- Editorial Board Member (2013 - Current) - *International Journal of Mobile Learning and Organisation (IJMLO)*
- Article Editor (2014) - *SAGE Open Journal*
- Guest Editor (2013) - *International Journal of Information and Communication Technology*, **Special Issue** on Information Technology and Intellectual Property Law
- Co-Editor (2017) - *Teaching Computational Thinking in Primary Education*, IGI Global
- Reviewer (Journals) - *IEEE Transactions on Wireless Communications*, *IEEE Transactions on Communications*, *IEEE Transactions on Multimedia*, *IEEE Transactions on Vehicular Technology*, *Journal of Global Optimization*, *Springer Wireless Networks*, *Elsevier Computer Networks*, *The Asia-Pacific Education Researcher (TAPER)*, *International Journal of Information and Education Technology (IJJET)*.
- Reviewer (Conferences) - *ACM SIGCSE 2011, 2012, 2013, RFM 2013, ISBEIA 2013, ISIEA 2013, ISWTA 2013, ROBIONETICS 2013, CoAST 2013, ICCE 2013, ICWiSe2013, SHUSER 2013, ISCI 2013, BEIAC 2013, ICICN 2013, SCORED 2012, IEEE APACE 2012, ICCE 2012, ISIEA 2012, ISBEIA 2012, ISWTA 2012, IEEE WCCI 2012, IEEE ICCSIT 2011, IEEE ICC 2011, 2012, IEEE GLOBECOM 2010, IEEE IWQoS 2008, IEEE HPSR 2008, IEEE MP2P 2008, IEEE Broadnets 2008, ACM ITiCSE 2010, 2011, 2012, ADHOC-NOW 2010.*

COMMITTEE AND ADMINISTRATIVE SERVICE

- Programme Director, Bachelor of Science (Information Management), Faculty of Education, The University of Hong Kong, 2017 - Current
- Chair, Executive Officer Committee, IEEE Hong Kong Section (Education Chapter), 2017-Current
- Vice Chair, Executive Officer Committee, IEEE Hong Kong Section (Education Chapter), 2014 - 2017

- Programme Committee Member, MSc(ITE) & (LIM) Programme Committee, Faculty of Education, The University of Hong Kong, 2016 - Current
- Programme Committee Member, BSc(IM) Programme Committee, Faculty of Education, The University of Hong Kong, 2016 - Current
- Programme Committee Member, Faculty Review Committee, Faculty of Education, The University of Hong Kong, 2016 - Current
- Programme Head/Coordinator, Postgraduate Diploma in Education (Design and Technology), The Education University of Hong Kong, 2015-2016
- Programme Head/Coordinator, Certificate in Professional Development Programme on e-Learning in Primary Chinese Language (5 weeks), The Education University of Hong Kong, 2015/16
- Advisor (e-Learning), A.D.&F.D. of Pok Oi Hospital Mrs. Cheng Yam On School, 2015-Current
- QAC (e-learning) Department Representative, The Education University of Hong Kong, 2015-2016
- Member, Organizing Committee, HKIED Inter-Primary School Mobile Apps Design Competition 2016
- Academic Advisor, The Education University of Hong Kong, 2015-2016
- Member, Board of Examiners for Bachelor of Music in Education (Honours), The Education University of Hong Kong, 2013/14
- Member, Board of Examiners for Professional Development Programmes on e-Learning, The Education University of Hong Kong, 2013-14
- Honorary Secretary, Executive Officer Committee, IEEE Hong Kong Section (Education Chapter), 2013-14
- Deputy Subject Coordinator, IT/Math Division, The Community College at Lingnan University, 2011-2012.
- OBA Coordinator, Business Programmes, The Community College at Lingnan University, 2011-2012.
- Member, Academic Committee (AC), The Community College at Lingnan University, 2011-2012.
- Member, Student Affairs Advisory Committee of the Deans Office, The Community College at Lingnan University, 2010-2011
- Member, Working Group for Curriculum Reform for 3-3-4 New Academic Structure (NAS), The Community College at Lingnan University, 2010-2011
- Member, Examinations Committee (EC), The Community College at Lingnan University, 2009-2011

PROFESSIONAL MEMBERSHIPS

- Member, National Honor Society of Phi Kappa Phi
- Senior Member, International Association of Computer Science and Information Technology (IACSIT)
- Senior Member, Institute of Electrical and Electronics Engineers (IEEE)
- Member, IEEE Communications Society
- Member, IEEE Computer Society
- Member, IEEE Education Society
- Member, Association for Computing Machinery (ACM)
- Member, ACM Special Interest Group on Mobility of Systems, Users, Data, and Computing (SIGMOBILE)
- Member, ACM Special Interest Group for Computer Science Education (SIGCSE)
- Member, Hong Kong Computer Society (HKCS)
- Honorary Member, Upsilon Pi Epsilon Computing Sciences Honor Society
- Member, Global Chinese Society for Computers in Education (GCSCE)
- Member, Asia-Pacific Society for Computers in Education (APSCE)
- Member, ACM Computer Science Teacher Association (CSTA)

OTHER QUALIFICATIONS

- St. John First Aid Certificate, 2015-2018
- Certification: Network+ (CompTIA)
- Level 2, Use of English, HKSAR Common Recruitment Examinations, 2009
- Pass, Aptitude Test, HKSAR Common Recruitment Examinations, 2009
- English as the International Language (EIL) Program, Brigham Young University-Hawaii, 2003

LANGUAGES

Proficient in English and Cantonese. Working knowledge of Putonghua.

REFERENCES

Prof. Xiaohua Jia, *IEEE Fellow*
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