

Chee-Kit Looi 吕赐杰

Professor, Learning Sciences & Assessment Academic Group

Co-Director, Centre for Research and Development into Learning, Nanyang Technological University

Founding Head, Learning Sciences Lab

Head, Centre for Scalability, Translation and Commercialization (2011 - 2014)

Head, Centre of Excellence in Learning Innovation (2008 - 2012)

National Institute of Education

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Nationality: Singapore Citizen

Education:

Bachelor of Science (1st Class Honours) in Mathematics and Computer Science

Master of Science in Computer Science (University of British Columbia, Canada)

PhD in Artificial Intelligence (University of Edinburgh, U.K.)

Professional Qualifications:

Member of International Society of Learning Sciences (2005-present)

Member of Asia-Pacific Society for Computers in Education (2004-present)

Member of IEEE Computer Society (1998-2004)

Member of International Artificial Intelligence in Education Society (1996-present);

Member of Association of Advancement of Computers in Education (1992-2000);

Member of Singapore Computer Society (1991-2010);

Member of British Computer Society (1986-1990);

Patents filed with United States Patent and Trademark Office:

Optimizing delivery of computer media (United States Patent: 6,728,760)

Brief Biodata

Chee Kit was Head of Learning Sciences Lab of the National Institute of Education (NIE), Nanyang Technological University (NTU), the first research centre devoted to the study of the sciences of learning in the Asia-Pacific region. He oversaw the research lab which comprised between 8 to 20 research scientists (at different points in time) who hold PhDs in learning sciences and related disciplines. He was the Head, Centre for Scalability, Translation and Commercialization from 2011-2014. He is currently the Co-Director of the Centre for Research and Development in Learning at NTU.

Chee Kit's research in education is characterized by producing outcomes, processes or artifacts that impact practice. An early completed project of his in NIE involved the design and development of digital mathematics manipulatives which have been made available to all secondary schools in Singapore.

He is the PI or co-PI of several research projects funded by the National Research Foundation, Singapore. His research has created significant inroads into transforming school practices: his work on rapid collaborative learning has created routine practices of collaborative work in ten primary and secondary schools. These schools have continued or plan to continue the innovations on their own initiatives. This work is cited in the 2010 US National Educational Technology Plan as a key example of technology-enabled innovation that has significant real impact in schools.

His research on seamless and mobile learning has made good progress toward creating a model of 1:1 computing in schools. His work created and transformed the complete curricula of Primary 3 and 4 science in Nan Chiau Primary School in Singapore so that they can harness the affordances of mobile devices for inquiry learning. Because of the good research outcomes, the school has decided to scale-up its 1:1 implementation to all of the Primary 3 and 4 classes since 2011 till now. In 2013, the school works with ten other schools in to scale-up the curricular innovation, supported by research into teacher professional development models, and sustainability and implementation issues. This research is remarkable in terms of reaching this stage of achieving sustainability and scalability.

Chee Kit's early mobile learning projects are featured amongst 25 handheld learning products and research projects in the U.S. and abroad in the US-based Sesame Workshop's 2009 report on "Pockets of Potential: Using Mobile Technologies to Promote Children's Learning." Thus his work is part of a cool-headed overview of the potential of mobile technologies for children's learning, which ends with a proposal to the Obama government to adopt a "multi-sector action plan to transform mobile learning from a state of uneven and scattered innovation into a force for dynamic educational impact." His mobile learning work is also cited in the US-based District Administration website which is widely read by US schools' superintendents.

Over the years, Chee Kit has given keynote addresses in international conferences held in Chile, Spain, Sweden, United States of America, Finland, Australia, Japan, Korea, China, Hong Kong, Indonesia, Macau, Taiwan, Malaysia, the Netherlands, UAE, and Singapore. He was a member of the SingTel Customer Advisory Council for Education. He was an Associate Editor for the Journal of the Learning Sciences, and is currently an Associate Editor for the International Journal of AI & Education. He is an editorial member of the Journal of CAL, the International Journal of

Computer-Supported Collaborative Learning, and Journal of Smart Learning Environments. He is Review Editor for Frontiers in Psychology and Frontiers in Education, and the General Editor of series entitled Routledge Advances in the Learning Sciences.

As a member of the Core Expert Group, he participated in the work on developing the framework for assessing Collaborative Problem Solving in OECD PISA 2015. He sits in the International Advisory Board for Global framework for STEM education, Global STEM Alliance, The New York Academy of Sciences, 2015. He is special consultant to the Smart Learning Institute of Beijing Normal University.

Chee Kit is a Fellow of the Asia-Pacific Society on Computers in Education. He is a founding member of the Global Chinese Society of Computers in Education, sits on its advisory board, as well as the advisory board of the Computers in Education journal published by Springer. He served as the President of the Global Chinese Society of Computers in Education from 2017 to 2019.

APPOINTMENTS

2019: Co-Director, Centre for Research and Development into Learning, Nanyang Technological University

2015 - 2018: Head, Learning Sciences Lab

2011 - 2014: Head, Centre for Scalability, Translation and Commercialization

2008 - 2012: Head, Centre of Excellence for Learning Innovation (COELI) (2008 - 2012), NIE, Nanyang Technological University.

March 2005 - June 2008. Head, Learning Sciences Lab (LSL), NIE, Nanyang Technological University.

From Sep 2010: Full Professor of Education, , NIE, Nanyang Technological University.

Jan 2004 - Sep 2010. Associate Professor (with tenure from July 2008), Learning Sciences & Technologies Academic Group, NIE, Nanyang Technological University.

Jan 2000 - Dec 2003. Senior Programme Director, Institute of Systems Sciences, National University of Singapore

September 1997 - July 2000: Assistant Director, Information Technology Institute, Singapore.

September 1988 - August 1997: Senior Research Scientist, Information Technology Institute, Singapore.

RESEARCH

Professional Activities (National and International Societies, International Conferences, and other engagements)

1. Review Editor for Frontiers in Psychology and Frontiers in Education
2. General Editor of series entitled Routledge Advances in the Learning Sciences, from 2019.
3. Member of Interview Panel, MOE's Outstanding Computer Teacher Award (OCTA), 2019.
4. President, Global Chinese Society for Computers in Education, 2017-2019.

5. Member of High-level Advisory Panel of the Chief Executive's Award for Teaching Excellence (CEATE) Secretariat of the Education Bureau of the HKSAR Government (2017/2018).
6. Advisory Member of University of Sydney's Centre for Research on Learning and Innovation since 2017.
7. External Reviewer, e-learning Goals, Strategies and Implementation Plans, Education University of Hong Kong (EdUHK), 1-3 March 2018.
8. Convenor, International Re-designing Pedagogy Conference, 31 May - 2 June 2017, Singapore.
9. Member of Advisory Board for Global framework for STEM education, Global STEM Alliance, The New York Academy of Sciences, 2015
10. Member of review panel for research proposals using Nanyang Technological University Centre for Research and Development for Learning's start-up grant, 2015
11. Program Co-chair, International Conference of the Learning Sciences, Singapore, 2016
12. Consultant to Singapore Corporation Enterprise on China's Zhuhai city Smart Education Project, 2015-2016
13. Honorary Advisor, 21st Century Competencies, Hwa Chong Institution, 2015
14. External Reviewer of Research Grants Council (RGC) grants of the Hong Kong SAR, China.
15. Consultant to the Beijing Normal University (BNU) project with Intel on the five-year plan for Informatization in Education, 2015; and to the Smart Education Institute of BNU.
16. Consultant, HKIED EDB project "Provision of Services for Conducting the Research Study on the Pilot Scheme on e-learning in Schools (Part 2)", April 2014.
17. Programme Committee member of ICALT 2014 & ICALT 2015.
18. Senior Programme Committee of AIED 2015.
19. Programme Committee member of SMART conference 2014.
20. Senior Reviewer, International Conference on the Learning Sciences, Colorado, June 2014.
21. Panel Member of Institutional Audit of Mauritius Institute of Education, 15-19 July 2013.
22. Conference Chair of Global Chinese Conference on Computers in Educations (GCCCE 2013), Beijing, China, May 2013.
23. Member of international collaboration group awarded International Research Network of World Educational Research Association on Theory and Practice of Pedagogical Design for Learning in Digital Classrooms, 2012.
24. Member of High-level Advisory Panel of the Chief Executive's Award for Teaching Excellence (CEATE) Secretariat of the Education Bureau of the HKSAR Government (2011/2012).
25. Scientific Advisory Board member for the Israeli Center of Excellence "Education in the Digital Era: From Information Consumption to Knowledge Construction".
26. Tutorial and workshop chair, The 16th International Conference on Artificial Intelligence and Education, 9 - 13 July, 2013, Memphis, USA.
27. Pre-conference Workshops and Tutorials Co-chair, 10th International Conference on Computer Supported Collaborative Learning, Connecting computer supported collaborative learning to policy and practice, 15-19 June, 2013, Madison, USA.
28. Programme Committee Member of 7th IEEE International Conference on Wireless, Mobile & Ubiquitous Technologies in Education (WMUTE 2012)
29. Programme Committee Member of Workshop on Scalability and Interoperability Dimensions for Mobile Learning applications (SID-ML2012)

30. Programme Committee Member of Enhancing Learning with Ambient Displays and Visualization Techniques (ADVTEL'2011)
31. Core Group Member of Collaborative Problem Solving Expert Group, of PISA, OECD, 2011.
32. Programme Committee member of 10th World Conference on Mobile and Contextual Learning, 2011.
33. Editorial member of International Journal of Mobile Learning Organization, since 2007.
34. Programme Committee member, 1st International Workshop on Enhancing Learning with Ambient Displays and Visualization Techniques (VIZTEL'11), 6th European conference on Technology Enhanced Learning (EC-TEL 2011), Palermo, Italy.
35. Sponsorship Co-chair and Senior Programme Committee member, The 15th International Conference on Artificial Intelligence and Education, 27 June - 1 July, 2011, Christchurch, New Zealand.
36. Pre-conference Workshops and Tutorials Co-chair, 9th International Conference on Computer Supported Collaborative Learning, Connecting computer supported collaborative learning to policy and practice, July 4-8, 2011, Hong Kong, China.
37. Member of scientific committee of the IADIS Multi Conference on Computer Science and Information Systems for 2008, 2009 & 2010 - "e-LEARNING - eL2008/2009/2010".
38. Programme Committee member of IEEE Wireless, Mobile and Ubiquitous Technologies in Education, WMUTE, 2010, Kaohsiung, Taiwan.
39. General Co-chair, Global Chinese Conference on Computers in Education, 2010, Singapore.
40. Senior Programme Committee member and Panels Co-Chair of Intelligent Tutoring Systems, 2010, Pittsburgh, USA.
41. Programme Co-Chair of International Conference on Computers in Education, 2009, Hong Kong China.
42. Member of SingTel Customer Advisory Council for Education (2008-2010)
43. Programme Committee member of IEEE Wireless, Mobile and Ubiquitous Technologies in Education, WMUTE, 2008.
44. Programme Co-Chair of International Conference on Computers in Education, 2008, Taipei, Taiwan.
45. Programme Committee member of workshop on MULE (mobile and ubiquitous learning environment, Hiroshima, Japan, on Nov 5-9, 2007.
46. Advisory Board, James J. Kaput Center for Research and Innovation in Mathematics Education, University of Massachusetts, Dartmouth, USA, since 2007.
47. External Examiner for Chinese University of Hong Kong, MA in IT-in-Education, since 2004.
48. International Scientific Advisory Board of the IMPDET (International Multidisciplinary Ph.D. Studies in Educational Technology) programme of University of Joensuu, Finland, since 2004.
49. Programme Co-chair of International Conference on Computers in Education, 2005, Singapore.
50. Programme Co-chair of International Conference on Artificial Intelligence & Education, 2005, July 18-22, Amsterdam, the Netherlands.
51. Referee for research proposals from Hong Kong's University Grant Committee (UGC), 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2010, 2011.
52. Regional Editor and Member of International Board of Advisors for Journal of Computer-Assisted Learning (SSCI journal), Blackwell Publishers
53. Programme Co-chair of IEEE International Conference on Advanced Learning Technologies, Joensuu, Finland, 2004.

54. Programme Co-chair of International Conference on Computers in Education, 2004, Melbourne, Australia.
55. Conference Chair of International Conference on Computers in Education, 2001, Seoul, Korea.
56. Conference Chair of International Conference on Computers in Education, 2000, Taipei, Taiwan.
57. Conference Chair of Global Chinese Conference on Computers in Education, 29-31 May 2000, Singapore.
58. Conference Chair of International Conference on Computers in Education, 1999, Chiba, Japan.
59. "Learning in the Synergy of Multiple Disciplines" Conference Chair of International Conference on Computers in Education, 1998, Beijing, China.
60. Member of Programme Committees of:
 - International Conference on User Modeling, Adaptation & Personalization, Trento, Italy, 22-26 June 2009.
 - International Conference on AI in Education, Brighton, U.K, 2009;
 - International Conference of Intelligent Tutoring Systems (ITS-2008), Montreal, Canada, 2008;
 - Fourth European Conference on Technology Enhanced Learning, 29 Sep – 2 Oct, 2008, Nice, France.
 - International Conference on Computers in Education, 1995, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007
 - International Conference on AI in Education, Los Angeles, 2007;
 - International Conference of Intelligent Tutoring Systems (ITS-2006), Taipei, 2006;
 - Global Chinese Conference on Computers in Education, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006
 - International Conference on WWW 2005
 - Education Track, Fourteenth International World Wide Web Conference, May 10-14, 2005, Chiba, Japan
 - International Conference of Intelligent Tutoring Systems (ITS-2004), Maceio, Brazil, 2004;
 - Pacific Rim Conference on AI, Melbourne, Australia, 2000; Tokyo, Japan, 2002; Auckland, New Zealand, 2004
 - IADIS Web-based Communities 2004
 - International Conference on AI in Education, Sydney, Australia, 2003;
 - International Conference of Intelligent Tutoring Systems (ITS-2002), San Sebastian, Spain, 2002;
 - International Conference on AI in Education, San Antonio, USA, 2001;
 - International Conference of Intelligent Tutoring Systems (ITS-2000), Montreal, Canada, 2000;
 - International Conference on AI in Education, Le Mans, France, 1999;
 - International Conference of Intelligent Tutoring Systems (ITS-1998), Texas, USA, 1998;
 - International Conference on Computers in Education, 1997, Kuching, Malaysia;
 - International Conference on AI in Education, Kobe, Japan, 1997;
 - World Congress on Expert Systems, Seoul, South Korea, 1996;

- International Conference on Intelligent Tutoring Systems (ITS-1996), Montreal, Canada, 1996;
 - Pacific-Asia Conference on Expert Systems, Huang Shan, China, 1995;
 - AACE International Conference on AI in Education, Washington, D.C., 1995;
 - International Conference on Computers in Education, 1995, Singapore;
 - International Conference on Computers in Education (ICCE), Taiwan, 1993;
61. Managing Editor of International Journal on Information Technology (1996 - 2000)
 62. Executive Committee Member of the International Society of Artificial Intelligence & Education (1997 - present)
 63. Executive Committee Member of the Global Chinese Society on Computers in Education (1997 - present)
 64. Council Member of TIMS College on AI and Management Science (1994 - 2000).
 65. President of Association for the Advancement of Computing in Education Asia-Pacific Chapter (AACE APC) (1997-2001).
 66. President-elect of Association for the Advancement of Computing in Education Asia-Pacific Chapter (AACE APC) (1996-1997).
 67. Executive Council Member of Association for the Advancement of Computing in Education Asia-Pacific Chapter (AACE APC) (1993-2001), and Asia Pacific Society for Computers in Education (2001 - present)
 68. Conference Chair of International Conference on Computers in Education, Dec, 1995 (ICCE 95).
 69. Chair of Technical Committee & Member of Organizing Committee of Second Singapore International Conference on Intelligent Systems, Nov, 1994 (SPICIS 94).
 70. President of Singapore Computer Society AI Chapter (1994 -1995).
 71. Vice-president of Singapore Computer Society Artificial Intelligent (AI) Chapter (1992, 1993).
 72. Member of Technical & Organizing Committees of First Singapore International Conference on Intelligent Systems, Sept, 1982 (SPICIS 92).

Professional Activities (Editorial Boards of Journals)

1. Review Editor on the Editorial Board of Educational Psychology (specialty section of Frontiers in Psychology and Frontiers in Education).
2. Honorary Advisor, Journal of Computers in Education, Springer (2013 - present).
3. Member of Editorial Board, Smart Learning Environments, Springer (2007 - present).
4. Associate Editor of Journal of the Learning Sciences (2015 - present)
5. Strand Editor (Out of School) of Journal of the Learning Sciences (2013 - 2015)
6. Member of Editorial Board, IEEE Transactions on Learning Technologies (TLT) (2007 - 2014).
7. Editorial Board Member of Book Series "The Future of Learning", IOS Press (2005 - present).
8. Member of Editorial Board of International Journal on Computer-Supported Collaborative Learning (2005 - present).
9. Member of Editorial Board of Journal of Computer-Assisted Learning, Blackwell Publishers (1999 - present)

10. Member of Editorial Board of International Journal of Artificial Intelligence & Education (1997 - present).
11. Managing Editor of International Journal on Information Technology (1996 - 2000).
12. Editor of Singapore Computer Society IT Journal (1991 - 2003).

Research Grants Obtained:

1. PI, Build, Inspire, Strategize: Promoting Computing Education in Singapore, Tides Foundation grant, Feb - Dec 2020, \$39,650 USD.
2. co-PI, Leveraging on augmented reality technologies for Establishment of Science Trail: An exploratory study, Ministry of Education's Educational Research Funds, 2020-2022, S\$ 339,971.
3. co-PI, Computer-Supported Collaborative Argumentation in Social Studies and History Classrooms, Ministry of Education's Educational Research Funds, 2020-2022, S\$ 340,000.
4. PI, Orchestration of Microlearning to Support Singapore's Workforce in their Lifelong Learning Journey: Learner, Design and Performance, Workforce Development Applied Research Fund (WDARF), 2020-2021, \$288,688.
5. PI, Build, Inspire, Strategize: Promoting Computing Education in Singapore, Tides Foundation grant, Feb - Dec 2019, \$39,650 USD.
6. PI, How to Bring Computational Thinking (CT) into Mathematics Classrooms: Designing for Disciplinary-Specific CT, Ministry of Education's Educational Research Funds, Jan 2019 - Dec 2020, S\$323,376.
7. co-I, m-Orchestrate: Developing a mobile learning system for teacher orchestration in collaborative science inquiry, Hong Kong Special Administrative Region, China, 1 Jan 2018-31 Dec 2020, HK\$619,176
8. co-PI, Assessment and Visualization of Collaborative Argumentation in Science Classroom, Singapore Ministry of Education's Educational Research Funds, 15 Aug 2017 - 14 Aug 2019, \$249,976
9. co-PI, Streamlining the Designs of Seamless Science Learning for Wider Diffusion, Ministry of Education's Educational Research Funds AFD 05/16, 1 Feb 2017 - 31 Dec 2018, \$248,367
10. co-PI, Framing questions for inquiry: An implementation study of a minimalist designed innovation (SMILE) in Singapore schools. Singapore's National Research Foundation, NRF2015-EDU001-IHL1, Oct 2015- Dec 2016, \$197,300
11. PI, Researching and developing pedagogies using unplugged and computational thinking approaches for teaching computing in the schools, Singapore Ministry of Education's Educational Research Funds, July 2016 - July 2018 \$209,691
12. PI, Evaluating Efficacy of a Cyberbullying Intervention Programme For Children Under Age 13 in Changing Their Online Attitudes Toward Cyberbullying, NTU Academic Research Funds grant, 2016, \$89,640
13. co-PI, "Inquiry-based Seamless Learning in Primary Science", Ministry of Education Edulab grant, 2012 - 2014, \$563,784.00
14. PI, Infusion, Dissemination and Evolution: Seeding an Innovation from One School to a Few Schools, from Office of Education Research, National Institute of Education, March 2013 - August 2014, \$99,618
15. co-PI, Singapore's National Research Foundation, Building Blocks For Developing 21st Century Competencies, Future School project (Jan 2012 - December 2014, \$850,596)
16. PI, Design for Scalability: From a Class Intervention to a Level Intervention, from Office of Education Research, National Institute of Education (April 2011 - December 2012, \$250,000)
17. co-PI, Singapore 's National Research Foundation, NRF2009-IDM001-MOE-019, Towards pervasive pedagogical practices and learning in 21st Century, Future School project, (03-Sep-2009 to 03-Sep-2013, S\$5,154,680.34)

18. co-PI, Singapore's National Research Foundation, NRF2008-IDM001-MOE-015, Intelligent Agent-Augmented Multi-User Virtual Environments: Research into Designs for Learning Environments of the Future (1-Oct-2008 to 1-Oct-2011, S\$1,696,000)
19. PI, Singapore's National Research Foundation, NRF2007-IDM005-MOE-008 Leveraging Mobile Technology for Sustainable Seamless Learning in Singapore Schools (Apr-2008 to Mar-2011, S\$1,070,160)
20. PI, Singapore's National Research Foundation, NRF2007-IDM003-MOE-001 Group Scribbles: Flexible Collaboration for Interactive Whiteboard (IWB) Classrooms (Sep-2007 to Sep-2010, S\$1,134,834)
21. co-PI of Envisioning Learning Environments of the Future: A Collaboration with the LSL of Singapore (DLAC-2), May 2007 - May 2008, US\$ \$40K from National Science Foundation of the United States)
22. PI of Engaging secondary school students with the mathematics of change (Sep-06 to Dec-2007, S\$49,923 from LSL)
23. PI of Developing strong conceptual foundations in mathematical reasoning and problem-solving in algebra through multiple and dynamic representations, and digital manipulatives (Jul-2006 to Dec-2008, S\$197,705 from LSL)
24. PI of Enriching Teachers' Pedagogical Practices in Singapore School through a Design-based Approach with Interactive Whiteboards as Catalyst (Jan-2006 to Aug-2006, S\$49,945 from LSL)
25. PI of Fostering a Teachers' Community of Practice mediated by an emerging CSCL tool, LSL funding (Nov-2005 to Aug-2006, S\$40,950 from LSL)
26. Co-PI of Designing pedagogical support for enabling inquiry learning through a learning community approach (Jan-2005 to Jan-2008, S\$189,806 from LSL)

Invited/Keynote Talks at International Conferences & Events

1. **Keynote Speaker**, Innovative Education and Digital Technology Conference 2020, Colombo, Sri Lanka, 19- 20 November 2020.
2. **Keynote Speaker**, Revisiting Self-Directed Learning Competencies during Times of School Closures due to COVID-19, at the "National Academy for Educational Research (NAER) 2020 Education Conference: Development and Applications of Resources for Self-Directed Learning," Taipei, Taiwan, July 17, 2020.
3. **Keynote Speaker**, Seamless Learning as a Disruptive Learning Innovation, Third International Conference on Learning Innovation, Malang, Indonesia, 9-10 October 2019.
4. **Keynote Speaker**, Seamless Learning: Reflections from a decade of research work, World Conference on Mobile and Contextual Learning (mLearn 2019), Delft, Netherlands, 17-18 September, 2019.
5. **Keynote Speaker**, Designing for Disciplinary-specific CT: How to bring CT into Mathematics classrooms? International Conference on Computational Thinking Education, The Education University of Hong Kong, Hong Kong, China 13-15 June 2019.
6. **Keynote Speaker**, Where Learning Meets Theory Meets Technology Meets HCI Design, International Conference on Human Computer Interface, Jeju, South Korea, 13-16 February 2019.

7. **Invited Speaker**, Contemporary Approaches to the Assessment of Computational Thinking, Ewha Womans University, Seoul, South Korea, 12 February 2019.
8. **Invited Speaker**, Landscape of Learning Sciences Research Innovations in Singapore Schools, National Taiwan Normal University, 1 October 2018.
9. **Keynote Speaker**, When Mobile Learning meets Cognitive Load Theory, International Conference on Cognitive Load Theory, Sep 4-6, Beijing, China.
10. **Keynote speaker**, Whither Seamless Learning: Perspectives, Challenges and Opportunities, IADI International Conference on Mobile Learning, Lisbon, Portugal, 13-15 April, 2018.
11. **Invited Speaker**, Smart Education and Learning Analytics: Research Case Studies in Singapore Schools, Department of Educational Technology, South China Normal University, China, 6 September 2017.
12. **Keynote Speaker**, Realizing inquiry learning in schools: Innovation, implementation & impact. 8th Global Chinese Conference on Inquiry Learning: Innovations and Applications: GCCIL 2017, June 27 - 29, 2017, ChengDu, China.
13. **Panel speaker**, Panel Session on Computational Thinking and Education Policy for the International Conference on Computational Thinking Education 2017 (CTE2017), 13-15 June 2017.
14. **Keynote speaker**, Pedagogies for Teaching Computational Thinking: Pathways and Possibilities, Seminar on Computational Thinking Education in Hong Kong on 31 March 2017.
15. **Keynote speaker**, A Technology-enabled Inquiry Science Curriculum for Primary Schools: Making and Measuring Effects at Scale, IEEE T4 Conference, Mumbai, India, Dec 2-4, 2016.
16. **Keynote speaker**, Weaving Language Learning and Creativity Together, KAMALL 2016 conference: Promoting creativity in English education through CALL, Seoul, Korea, August 8, 2016.
17. **Invited speaker**, Rethinking Smart Learning Environments: Can Advanced Interactive Learning Technologies Change the World?, "International Conference for Educational Technology (ICET) 2015" in Seoul, Korea, April 18-21, 2016, co-hosted by KSET and AECT (Association for Educational Communications and Technology) under the central theme of "Rethinking Educational Technology in the Smart Environment".
18. **Invited Theme-Speaker**, Whither or Wither the Impact of Educational Research? Pathways to Sustainability and Scalability, ICCE, Nov 30-Dec 4, 2015.
19. **Invited speaker**, Teaching 21st century skills with technology How peer to peer learning can nurture problem-solving, collaboration and rapid knowledge improvement, BETTS Asia, Singapore, 16-17 Nov 2015.
20. **Invited speaker**, Educational Innovations in Schools: Implementation, Impact & Scale-up, Presentation in MOE-Intel Workshop on Learning Design, Beijing Normal University, Beijing, 10-11 April 2015.
21. **Invited speaker**, Curricular Innovation in Mobile Learning: A Sustainable Model, SAGE-iSummit 2014 (国际教育合作联盟暨2014西山国际峰会), Beijing, 21-23 November, 2014.
22. **Keynote speaker**, Enculturating Self-Directed Mobile-Assisted Language Learning, Mobile Assisted Language Annual Conference of the Korean Association of Multimedia Assisted Language Learning (KAMALL) (http://www.kamall.or.kr/index_en.php), Seoul, Korea, Saturday September 20, 2014
23. **Keynote speaker**, "Enacting Mobile Learning Curricula in Schools: Innovation, Implementation and Impact", International Conference on Technology in Education (ICTE), Hong Kong, China, 2-4, July 2014.

24. **Invited speaker**, “The Use of Textbooks for Instruction and Assessment in Singapore”, International Textbook Symposium (organized by Korea Textbook Research Foundation), Seoul, Korea, 25 October 2013.
25. **Keynote speaker**, “Scaling up Educational Innovations: Sharing Experiences from Singapore”, International iCampus Symposium, Abu Dhabi, UAE, 24-25 November 2013.
26. **Invited speaker**, Academic Quality Management Framework of Singapore’s National Institute of Education, Seminar on “Preparing for an Audit: QA Agency’s, Auditor’s and Auditee’s Perspectives” organized by Tertiary Education Commission, Mauritius, 15 July 2013.
27. **Keynote speaker**, Bridging research to practice: what learning sciences research tell or does not tell us 贯通研究与实践的界限：学习科学中的已知与未知. Keynote Address, First International Conference on the Learning Sciences 第一屆學習科學學術研討會, Hsin-chu, Taiwan, 25-27 April, 2013.
28. **Keynote speaker**, ICT in Education and Mobile Learning: Perspectives from Singapore. Keynote Address, Mobile World Congress, Barcelona, Spain, 25-28 Feb, 2013.
29. **Keynote speaker**, Assessing Collaborative Problem Solving at Scale. Keynote Address, Seminar of the Ministry of Education, Chile, Santiago, Chile, April, 2013.
30. **Keynote speaker**, Design-based Research Perspectives to Foster 21st Century Learning in Educational Games, 2012 International Conference on Digital Game-based Learning, Hangzhou, Oct 25 - 27, 2012.
31. **Invited speaker**, Scaling up Mobile Learning, MobiLearn Asia Conference, Singapore, 24-25 October, 2012.
32. **Keynote speaker**, Sustaining and Scaling Educational Innovations: Sharing Experiences and Challenges from Singapore, CITER Symposium, University of Hong Kong, China, 16 June 2012.
33. **Invited speaker**, Bridging Knowledge to Practice: Lessons learned in scaling an innovation from one school to ten schools, Symposium on Policy, Practice and Research in e-Learning in School Education, Hong Kong Institute of Education, Hong Kong, China, 24 April 2012.
34. **Panel session speaker**, Addressing the Goals of Masterplan 3 in Using 1:1, Seamless, Mobile Learning to Support a Student-Centric Pedagogy, at iCTLT, 29 March 2012.
35. **Keynote speaker**, The International Conference on Computer and Network Technologies on Education, Hsinchu, Taiwan, 22-23 December, 2011.
36. **Invited plenary speaker**, 'Time for science learning, take out your mobile phones', ICT Connection.LIVE event at Nan Chiau Primary School, 1 July 2011.
37. **Keynote speaker**, Sustained Innovation in Classroom Practices: The Role of Educational Researchers as Meso-Level Actors, Beijing Forum, Beijing, 4-6 November, 2011.
38. **Keynote speaker**, Sustainable Seamless Learning: What have we learned and where are we going?, 10th World Conference on Mobile and Contextual Learning, Beijing, China, 18-21 October 2011.
39. **Invited speaker**, International Textbook Symposium (organized by Korea Textbook Research Foundation), 28 April 2011.
40. **Keynote speaker**, “Nurturing Sustainable Learning Eco-systems: Perspectives from Singapore”, 1st Nordic Symposium on Technology-Enhanced Learning, Linnaeus University, Växjö, Sweden, August 26-27, 2010.
41. **Keynote speaker**, “Can Research-based Technology Change School-based Learning? Perspectives from Singapore”, 10th International Conference on Intelligent Tutoring Systems. Keynote Address, Pittsburgh, US, June 14-18, 2010.

42. **Invited panelist**, “Research Policies on Technology-Enhanced Learning: Perspectives from Singapore”, Panel on Research Policies on Technology-Enhanced Learning, IEEE WMUTE Conference, 12 April 2010.
43. **Invited speaker**, “Key Research Activities in Technology-Enhanced Learning in Singapore”, The First Asian Workshop on Policy, Implementation, and Research in Technology Enhanced Learning, Taiwan, 9-12 March 2010.
44. **Invited speaker**, “Research Impacting Practices in Schools: Learning Sciences Perspectives from Singapore” at University of Hong Kong’s Strategic Research Theme on Sciences of Learning, 28 Sep 2009.
45. **Invited panel speaker**, SingTel iLuminate event, 24 September, 2008.
46. **Invited speaker**, e-Learning Global Leaders Conference, September 10-11, 2008.
47. **Invited speaker**, e-Learning Asia 2008, Seoul, Korea, September 10-11, 2008.
48. **Keynote speaker**, “Bridging Research to Practice in Technology-Mediated Learning: Innovations and Challenges in Singapore”, International Conference on Computers in Education, Hiroshima, Japan, November 5-9, 2007.
49. **Keynote speaker**, “Learning Sciences Innovations in Schools: Bridging Research to Practice”, Global Chinese Conference on Computers in Education, Guangzhou, China, May 27-30, 2007.
50. **Keynote speaker**, International IT in Education Conference, Hong Kong Education and Manpower Bureau, February 2006.
51. **Invited speaker**, International Meeting on e-learning, Tokyo Institute of Technology, 9-11 October, 2004.
52. **Keynote speaker**, IEEE International Conference on Advanced Learning Technologies, 31 Aug - 3 September 2004.
53. **Keynote speaker**, International Conference on E-Education, Macau, 24-25, June 2004.
54. **Keynote speaker**, First International Conference on Educational Technology in Cultural Context, Joensuu, Finland, 2-3 September 2002.
55. **Tutorial speaker**, International Summer School on Educational Technology, 26-30 August, Joensuu, Finland, 2-3 September 2002.
56. **Invited speaker**, Pan-Yellow-Sea International Workshop on Information Technologies for Network Era (PYIWIT’02), Kyushu, Japan, 7-8 March 2002.
57. **Keynote speaker**, International Conference on Artificial Intelligence, Kedah, Malaysia, 1-2 November 2001.
58. **International Visitor**, Monash University, Australia, 17-18 October 2001.
59. **Invited speaker** for Internet Business 2001 – The Evolving Net Economy, 6-7 September 2001.
60. **Invited panel speaker** for Global Chinese Conference on Computers in Education, Chungli, Taiwan, 8-10 June 2001.
61. **Guest speaker** for E-Education: Environments, Effectiveness, Economics and Expectations Conference at National University of Singapore, Singapore, 9 January 2001.
62. **Invited speaker** for International Conference on Computers in Education, Taipei, Taiwan, November 21-24, 2000.
63. **Invited speaker** for Seminar on Web-based Education and Information Technology for Schools, ChungLi, Taiwan, 9 September 2000.
64. **Invited speaker** for Malaysia International Conference & Exhibition on Electronic Learning 2000 (e-learning 2000 Conference), Kuala Lumpur, Malaysia, 25-28 May 2000.

65. **Invited speaker** for International Conference on Computers in Education, Taiwan, November 2000
66. **Invited speaker** at National Computer-Based Education Conference in Chungking, China, November 2000
67. **Guest speaker** at South China Normal University and South-West China Normal University, November 2000
68. **Invited panel speaker** at International Conference on Computers in Education, Chiba, Japan, November 1999.
69. **Guest speaker** for Singapore Computer Systems “Instructional Design Seminar”, November 1999.
70. **Invited speaker** for Global Chinese Conference on Computers in Education, Hong Kong, China, June 1998;
71. **Invited speaker** on “Effective Uses of Technology for Military Training” at SAFTI Military Institute, 24 Nov 1998
72. **Invited speaker** for Annual Hong Kong Educational Research Association Conference, Hong Kong, 1997;
73. **Invited speaker** for International Conference on AI & Education, Japan, 1997;
74. **Invited speaker** for Global Chinese Conference on Computers in Education, Guangzhou, China, May 1997;
75. **Tutorial speaker** on Teaching and Learning on MUDs, MOOs and WOOs, International Conference on Computers in Education, Kuching, Sarawak, Malaysia, 1997.
76. **Invited Colloquium Speaker**, Jasper in Singapore: A Case Study of Pupils' Problem Solving in Real-Life Contexts, Learning Technology Centre, Vanderbilt University, USA, June 10, 1996.
77. **Invited talk** on Intelligent Systems in Singapore to Rotary Club of Singapore North, November, 1994.
78. **Invited speaker** for Educational Technology Conference organized by MOE and NCB in May 30-31, 1994, Intelligent Tutoring Systems: Are they feasible or do we need them anyway?
79. **Tutorial speaker** on Intelligent Computer Tutors at Symposium on Intelligent Systems Applications, Singapore, November, 1993.

Best Paper Awards at International Conferences

1. **Outstanding conference paper award** for Looi, C.-K., Song, Y., & Wong, L.-H. (2013). *Mobile technology-assisted personalized learning in science inquiry*. In Proceedings of Global Chinese Conference on Computers in Education 2013 (pp. 174-180). Beijing, China: Beijing University.
2. **Best paper award** for *Designing content-independent mobile learning technology: Learning fractions and Chinese Language*, Tenth World Conference on Mobile and Contextual Learning, Beijing, China, 18-21 October 2011.
3. **Excellent paper award** for *Designing Rapid Collaborative Knowledge Improvement for Second Language Learning*, Proceedings of Global Chinese Conference on Computers in Education, Zhejiang University, Hangzhou, May 2011.
4. **Best conference paper award** for *Mobile-Assisted Vocabulary Learning in Real-Life Setting for Primary School Students: Two Case Studies*. 6th IEEE International Conference on Wireless,

Mobile and Ubiquitous Technology in Education (WMUTE 2010), Kaohsiung, Taiwan, 12-16 April 2010.

5. **Outstanding conference paper award** for *Who Are the Beneficiaries When CSCL Enters into Second Language Classroom*. Global Chinese Conference on Computers in Education 2009, May 26-28, Taipei, Taiwan.
6. **Outstanding conference paper award** for *Computers as Cognitive Tools: An Environmental Learning Project in Singapore*, International Conference on Computers in Education, Hiroshima, Japan, November 2007; in *Supporting Learning Flow Through Integrative Technologies* (ed. T. Hirashima, U. Hoppe & S-C Young), IOS Press, pp. 377-384.
7. **Outstanding conference paper award** for *Incorporating Online Discussion in Classroom Learning: A New Strategy*, International Conference on Computers in Education (ICCE 2006), Beijing, China, November 2006.
8. **Best conference paper award** for *Supporting Conversations and Learning in Online Chat*, 10th World Conference on AI in Education, San Antonio, USA, May 19-23, 2001.
9. **Outstanding conference paper award** for *"EPIGAME: An Environment for Learning Epistemic Games"*, International Conference on Computers in Education, Kuching, Sarawak, Malaysia, December 1997.
10. **Best conference paper award** for *An ITS to Plan Inquiry Dialogue*, 7th World Conference on AI in Education, Washington, D.C., USA, Aug 16-19, 1995.
11. **Best conference paper award** for *A 2-D Framework on Qualitative and Quantitative Models in an ITS*, East-West International Conference on Computer Technologies in Education, Crimea, Ukraine, September 1994.

Publications

International Journal Papers (refereed)

1. Huang, W. and Looi, C.K., A Critical Review of Literature on "Unplugged" Pedagogies in K-12 Computer Science and Computational, *Journal of Computer Science Education* (NCSE), DOI: 10.1080/08993408.2020.1789411.
2. Chen, W., Chan, T.W., Wong, L.H., Looi, C.K. et al. (2020) IDC theory: habit and the habit loop. *Research and Practice in Technology Enhanced Learning* 15(1): 10 (2020). <https://doi.org/10.1186/s41039-020-00127-7>.
3. Wong, L.-H., Chan, T.-W., Chen, W., Looi, C.-K., Chen, Z.-H., Liao, C. C. Y., et al. (2020). IDC theory: interest and the interest loop. *Research and Practice in Technology Enhanced Learning*, 15(1): 3 (2020).
4. Chan, T., Looi, C.K., Chang, B. et al. (2019) IDC theory: creation and the creation loop. *Research and Practice in Technology Enhanced Learning*, 14, 26 (2020) doi:10.1186/s41039-019-0120-5.
5. Dlab, M. H., Boticki, I., Hoic-Bozic, N., & Looi, C. K. (2020). Exploring group interactions in synchronous mobile computer-supported learning activities. *Computers & Education*, 146: 103735. <http://dx.doi.org/10.1016/j.compedu.2019.103735>
6. Wu, L-K., Looi, C-K., Multisilta, J., How, M-L., Choi, H., Hsu, T-C. & Tuomi, P. (2020), Teacher's Perceptions and Readiness to Teach Coding Skills: A Comparative Study between Finland, Mainland China, Singapore, Taiwan, and South Korea, *Asia-Pacific Educational Research journal*, 29, pages21-34 (2020).

7. Looi, C.K. , How, M.L., Wu, L., Seow, P. & Liu, L. (2018), Analysis of Linkages between an Unplugged Activity and the Development of Computational Thinking, *Journal of Computer Science Education (NCSE)*, DOI: 10.1080/08993408.2018.1533297.
8. How, M.-L., & Looi, C.-K. (2018). Using Grey-based Mathematical Equations of Decision-making as Teaching Scaffolds: from an Unplugged Computational Thinking Activity to Computer Programming. *Journal of Computer Science Education in Schools*, 2(2), 29-46.
9. Chan, T. W., Looi, C. K., Chen, W., Wong, L. H., Chang, B., Liao, C. C. Y., ... Ogata, H. (2018). Interest-driven creator theory: Towards a theory of learning design for Asia in the twenty-first century. *Journal of Computers in Education*, 5(4), 435-461. <https://dx.doi.org/10.1007/s40692-018-0122-0>
10. Hsu, P., Van Dyke, M., Smith, T.J. & Looi, C-K. (2018), Argue like a scientist with technology: the effect of within-gender versus cross-gender team argumentation on science knowledge and argumentation skills among middle-level students. *Educational Technology Research and Development* 66, 733–766 (2018). <https://doi.org/10.1007/s11423-018-9574-1>.
11. Looi, C-K., Sun, D., Kim, M. S., & Wen, Y. (2018). The Impact of a Professional Development Model for a Mobilized Science Curriculum: A Case Study of Teacher Changes. *Research in Science & Technological Education*, Volume 36, 2018 - Issue 1, Pages 86-110.
12. Sun, D. & Looi, C. (2017), Focusing a mobile science learning process: difference in activity participation, *Research and Practice in Technology Enhanced Learning* (2017) 12: 3. doi:10.1186/s41039-016-0040-6.
13. Sun, D. & Looi, C. (2017), Learning with collaborative inquiry: a science learning environment for secondary students, *Technology, Pedagogy and Education*, Issue 3.
14. Lane, H. C., McCalla, G., Looi, C. K. & Bull, S. (2016), Preface to the IJAIED 25th Anniversary Issue, Part 2: The Next 25 Years: How Advanced Interactive Learning Technologies will Change the World, *International Journal of Artificial Intelligence in Education*. 26, 2, p. 539-543.
15. Kong, S.C., Looi, C.K., Chan, T.-W., & Huang, R. (2016). Teacher development in Singapore, Hong Kong, Taiwan and Beijing for e-Learning in school education. *Journal of Computers in Education*, J. Comput. Educ. (2017) 4(1):5–25.
16. Ivica Boticki, Jelena Baksa, Peter Sen Kee Seow, Chee-Kit Looi (2015), Exploring self-directed learning and the role of virtual badges in a mobile social learning platform. *IJMLO* 9(4): 289-300 (2015)
17. Prieto, L., Dimitriadis, Y., Asensio-Pérez, J., & Looi, C. (2015). Orchestration in learning technology research: evaluation of a conceptual framework. *Research In Learning Technology*, 23. doi:<http://dx.doi.org/10.3402/rlt.v23.28019>
18. Boticki, I., Seow, P., Baksa, J. & Looi, C.K. (2015). Usage of a mobile social learning platform with virtual badges in a primary school. *Computers & Education*, doi:10.1016/j.compedu.2015.02.015.
19. Sun, D., Looi, C.K., Wu L.K. & Xie, W. (2016). The Innovative Immersion of Mobile Learning into a Science Curriculum in Singapore: An Exploratory Study. *Research in Science Education*, Volume 46, Issue 4 , pp 547-573.
20. Wen, Y., Looi, C. K., & Chen, W. (2015). Appropriation of a representational tool in a second-language classroom. *International Journal of Computer-Supported Collaborative Learning*, 1-32.
21. Looi, C.K., Sun, D., & Xie, W.T. (2015). Exploring Students' Progression in an Inquiry Science Curriculum Enabled by Mobile Learning. *IEEE Transactions on Learning Technologies*, 8(1), 43-54.

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25. Wen, Y. Chen, W.L, Looi, C.K. & Xie, W., (2014), Appropriating a Representational Tool for Collaborative Language Learning: A Comparative Study of Two Teachers' Enactment, *Research and Practice in Technology Enhanced Learning*, Vol. 9, No. 1, pp. 189-208.
26. Sun, D. & Looi, C.-K. (2014), Designing for Model Progression to Facilitate Students' Science Learning, *Research and Practice in Technology Enhanced Learning*, Vol. 9, No. 2, pp. 301-322.
27. Kong, S. C., Chan, T.-W., Griffin, P., Hoppe, U., Huang, R., Kinshuk, Looi, C. K., Milrad, M., Norris, C., Nussbaum, M., Sharples, M., So, W. M. W., Soloway, E., & Yu, S. (2014). E-learning in School Education in the Coming 10 Years for Developing 21st Century Skills: Critical Research Issues and Policy Implications. *Educational Technology & Society*, 17(1), 70-78.
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33. Norris, C., Soloway, E., Tan, C-M., & Looi, C-K. (2013), *Inquiry Pedagogy and Smartphones: Enabling a Change in School Culture*, *Educational Technology*, Volume LIII, Number 3, July-August 2013, pp. 33-40.
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43. Wong, L.-H., & Looi, C.-K. (2011). *What seems do we remove in mobile assisted seamless learning? A critical review of the literature*. Computers & Education, 57(4), 2364-2381.
44. Song, Y. & Looi, C.K. (2012), *Linking Teacher Beliefs, Practices and Student Inquiry Learning in a CSCL Environment: A Tale of Two Teachers*, International Journal of CSCL, Volume 7, Number 1, March 2012.
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61. Wong, L.H., Chen, W., Looi, C.K. & Zhang B.H. (2009). 移动学习属性讨论学习设计两个案例, *Analysis of Attributes of Mobile Learning Activities: Two Case Studies of Mobile Learning Design*, 中国电教杂志.
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Books

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TEACHING

Courses taught or currently teaching in National Institute of Education

Pre-service courses for teachers

EED 100: Introduction to Instructional Technology

PED 513: Instructional Technology

CED 201: Learning, Thinking and Instructional Technologies

Graduate courses

MAIDT 816: Advanced Computer-based Learning Systems

MAIDT 809: Designing, Conducting, and Reporting Investigations

MLT 834: Technologies as Cognitive Tools

MLT 807: Cognitive Foundations of the Learning Sciences

MLT 808: Design of Interactive Learning Environments

MLT 809/MLT 909: Research Methodologies for the Learning Sciences

MTD 802/MTD 902: Foundations of Learning and Instruction

MLT 801/MLT 901: Foundations of the Learning Sciences

In-service courses for school practitioners

DDM: Diploma in Departmental Management (6-month programme to train Heads of Departments in schools)

MLS: Management and Leadership in Schools (17-week programme to train Heads of Departments in schools)

LEP: Leaders in Education Programme (6 month programme to train school vice-principals to be principals)

Research for Educators (R4E)

In my courses, I deployed the technologies with which I conducted my research in K-12 schools. I used GroupScribbles, mobile technologies, and VMT-Chat in my courses since 2007: firstly, I showed them the kind of activities we co-designed with teachers in K-12 schools, and secondly, I designed the courses so that the NIE students used the technologies as part of their learning experiences.

Theses supervised

PhD thesis by Juan Dee WEE, *“Reinventing Mathematics Problem Design and Analysis of Chat Interaction in Quasi-Synchronous Chat Environments”*, 2010. Early versions of parts of this PhD thesis are published as a book chapter in Stahl (ed, 2009), *Studying Virtual Math Team*, published by Springer, as well as presented in ICLS 2008.

PhD thesis by Longkai WU, *“Scaffolding of Students’ Reflection by Agent Prompts in an Intelligent Learning-by-Teaching Environment”*, oral examination in 2010. Early versions of parts of this PhD thesis are published as a book chapter in a volume by Springer, as well as presented in ICLS 2008.

PhD thesis by Yun WEN, *“Investigating Social Interaction in a Networked Second Language Collaborative Writing Classroom”*, 2014.

PhD thesis by Peter Seow, "*A Phenomenological Study of Teachers' Experiences in Integrating 1-to-1 Technology in Singapore Classrooms*", 2015.

MA thesis by SHERALYN WOON, "*Improving Visual Communications Skills Through the Use of the Tablet PC*", degree awarded in 2008.

MA thesis by Seau-Yoon FOO, "*An Exploratory Study of Productive Disciplinary Engagement: Understanding Primary Pupils' Emergent Dialogical Argumentation with Science Fieldwork*", degree awarded in 2009. Seau-Yoon is the winner of the MA in Instructional Design & Technology Gold Medal for 2009.

MA thesis by Michael Francis JALLEH, "*Social Studies as a Transdisciplinary Subject in an Integrated Programme School*", degree awarded in 2009.

I serve as the External Examiner for Chinese University of Hong Kong, MA in IT-in Education, from 2004 to 2010. I also serve as a member of International Scientific Advisory Board of the IMPDET (International Multidisciplinary Ph.D. Studies in Educational Technology) programme of University of Joensuu, Finland, since 2004.

In 2014, I serve as External Reviewer for the proposed Master of Arts in Learning and Data Sciences of HKIEd.