

**Helen Mei-ling MENG**

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Topic: The Future of Computing: Human-AI Symbiosis

**Abstract:**

The exponential advancements of big data, cloud computing and machine learning technologies continues to push new frontiers of Artificial Intelligence closer to Human Intelligence. This talk presents a desirable future of Human-AI interaction – a symbiotic relationship which enables the human and machine to work synergistically, where the combined system is vastly more capable than the sum of its parts, to create increasing impact on society. We will describe three scenarios of such symbiosis, and illustrate with recent research efforts at CUHK's Department of Systems Engineering & Engineering Management, as well as the CUHK Stanley Ho Big Data Decision Analytics Research Centre.

**Biography:**

Helen Meng is Professor and Chairman of CUHK's Department of Systems Engineering and Engineering Management. She is the Founding Director of the CUHK MoE-Microsoft Key Laboratory for Human-Centric Computing and Interface Technologies, Tsinghua-CUHK Joint Research Center for Media Sciences, Technologies and Systems, and Stanley Ho Big Data Decision Analytics Research Center. Previously, she served as CUHK Faculty of Engineering's Associate Dean (Research), Editor-in-Chief of the IEEE Transactions on Audio, Speech and Language Processing, and Member of the IEEE Board of Governors. She serves in various appointed roles, including the HKSAR Government's Steering Committee Member on eHealth Record Sharing, Research Grants Council (RGC) Member, Chairman of RGC's Assessment Panel for Competitive Research Funding Schemes for the Local Self-financing Degree Sector, Hong Kong/Guangdong ICT Expert Committee Member and Coordinator of the Working Group on Big Data Research and Applications, and Chairlady of the Working Party of the Manpower Survey of the Information Technology Sector for 2014-2015, 2016-2017 and 2017-2018. She has also served in the Government's Digital 21 Strategy Advisory Committee, and review panels of the Innovation and Technology Commission, Swiss National Science Foundation's National Centers of Competence in Research, etc. Helen received all her degrees from MIT. She was elected APSIPA's inaugural Distinguished Lecturer 2012-2013 and ISCA Distinguished Lecturer 2015-2016. She is newly elected into ISCA International Advisory Council (2017-2020). Her awards include Ministry of Education Higher Education Outstanding Scientific Research Output Award 2009, Hong Kong Computer Society's inaugural Outstanding ICT Woman Professional Award 2015, Microsoft Research Outstanding Collaborator Award in 2016 (one of 32 academics worldwide), IEEE ICME 2016 Best Paper Award, IBM Faculty Award 2016 and the HKPWE

Outstanding Women Professionals and Entrepreneurs Award 2017 (one of 20 since 1999).  
Helen is a Fellow of HKCS, HKIE, ISCA and IEEE.