

# 5th Summer School on INtelligent signal processing for FrontIEr Research and Industry



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## INTRODUCTION TO QUANTUM COMPUTING

*Saturday 18 May 2019 10:10 (1h 50m)*

Professor Man-Hong YUNG is the Vice Dean of the Shenzhen Institute for Quantum Science and Engineering (SIQSE) in Shenzhen, Chief Scientist for quantum algorithms and software at Huawei Technologies, and Associate Professor at the Southern University of Science and Technology (SUSTECH).

His recent interests include quantum simulation, quantum control, quantum machine learning, and applications for near-term quantum devices. He is one of the inventors of the method of variational quantum eigensolver (VQE) for simulating quantum chemistry. He is also involved in the experimental demonstration of applying the unitary coupled-cluster ansatz on VQE.

NOTE the re-arrangement of the schedule for the agenda of saturday morning: the lecture of Professor Min ZHANG (Tongji Hospital and HUST) is postponed to the second week of the School. Many thanks to Professors ZHANG and YUNG to adjust their agenda in order to contribute to the School.

**Presenter:** Prof. YUNG, Man-Hong (Vice Dean of the Shenzhen Institute for Quantum Science and Engineering (SIQSE), Shenzhen and Associate Professor of the Southern University of Science and Technology (SUSTECH), and Chief Scientist at Huawei Technologies.)

**Session Classification:** PLENARY MORNING SESSION