

# Computer Science Distinguished Lecture



THE UNIVERSITY OF HONG KONG  
DEPARTMENT OF  
COMPUTER SCIENCE

## From Einstein's Curiosity to Quantum Information Technology

### 從愛因斯坦的好奇心到量子信息科技

Date: January 15, 2021 (Friday)

Time: 3:00pm (GMT+8, HK Time)

Language: Putonghua 普通話  
(with presentation slides in English)

#### Abstract

Professor Pan and his team successfully constructed the first world ground-space integrated large-scale quantum communication network in China through the implementation of the "Micius" quantum scientific experimental satellite and the long-distance optical fiber quantum secure communication backbone network "Beijing-Shanghai trunk line". Recently, the optical quantum computing prototype "Jiuzhang" ("九章") of 76 photons has also been realized. According to the known optimal classical algorithm, "Jiuzhang" processes the Gaussian Bose sampling problem 100 trillion times faster than the current fastest supercomputer "Fugaku", which marks that China has successfully achieved the milestone of "supremacy in quantum computing".

潘教授及團隊通過“墨子號”量子科學實驗衛星和遠距離光纖量子保密通信骨幹網“京滬幹線”的成功實施，為中國構建了首個天地一體的廣域量子通信網絡雛形。近期，更實現了76個光子的量子計算原型機“九章”。根據現有最優的經典算法，“九章”處理高斯玻色取樣問題的速度比目前最快的超級計算機“富嶽”快100萬億倍，標誌著中國成功達到了“量子計算優越性”的里程碑。

#### Free Registration & More Details

Pre-Registration Opens Now (Quota: 500)

Walk-in Registration starts from  
1:00pm (GMT+8) on Jan 15 (Quota: 500)

#### Speaker

##### Professor Jian-Wei Pan

Executive Vice President, University of Science and Technology of China

Academician, Chinese Academy of Sciences

Director, CAS Center for Excellence in Quantum Information and Quantum Physics

##### 潘建偉教授

中國科學技術大學常務副校長

中國科學院院士

中科院量子信息與量子科技創新研究院院長



Enquiries:

+852 2859 2180 or enquiry@cs.hku.hk