香港城市大學
City University of Hong Kong
三十周年紀念

City University Distinguished Lecture Series

Speaker

Professor Andrew Chi-Chih Yao

Dean of the Institute for Interdisciplinary Information Sciences at Tsinghua University
Distinguished Professor-at-Large at the Chinese University of Hong Kong

Quantum Computing: A Great Science in the Making

on
Monday, 27 October 2014 at 4:30 pm

at
Connie Fan Multi-media Conference Room
4/F Cheng Yick-chi Building
City University of Hong Kong
Tat Chee Avenue, Kowloon

Abstract

In recent years, the scientific world has seen much excitement over the development of quantum computing, and the ever increasing possibility of building real quantum computers. What's the advantage of quantum computing? What are the secrets in the atoms that could potentially unleash such enormous power, to be used for computing and information processing? In this talk, we will take a look at quantum computing, and make the case that we are witnessing a great science in the making.

Biographical Sketch

Professor Andrew Chi-Chih Yao is the Dean of the Institute for Interdisciplinary Information Sciences, at Tsinghua University; he is also a Distinguished Professor-at-Large at the Chinese University of Hong Kong. Professor Yao's research interests are in the theory of computation and its applications to cryptography and quantum computing. He is recipient of the prestigious A.M. Turing Award in year 2000 for his contributions to the theory of computation, including pseudorandom number generation, cryptography, and communication complexity. He has received numerous other honors and awards, including the George Polya Prize, the Donald E. Knuth Prize, and several honorary degrees. He is a member of the US National Academy of Sciences, the American Academy of Arts and Sciences, and the Chinese Academy of Sciences.

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