



Department of Computer Science

香港城市大學
City University of Hong Kong

COMPUTER SCIENCE COLLOQUIUM

Quantum Internet: The Final Frontier

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DATE 3 Oct, 2025 (Fri)

TIME 10:00 AM - 11:30 AM

VENUE CS Seminar Room, Y6405, 6th Floor,
Yellow Zone, Yeung Kin Man Academic
Building, City University of Hong Kong, 83
Tat Chee Avenue, Kowloon Tong

ABSTRACT

In this talk, I will first give a brief introduction to quantum computing, and highlight the importance and opportunities for us to consider fundamental research in quantum Internet, in particular, how quantum network can enable quantum information transmission, quantum parallel processing and quantum distributed processing. I will then give a brief introduction about online learning theory, and how it can enable to explore interesting problems in building quantum network/internet. In particular, I will discuss the quantum path selection problem, as well as quantum boarder gateway protocol (QBGp).

BIOGRAPHY

John C.S. Lui is currently the Choh-Ming Li Chair Professor at the Chinese University of Hong Kong. He is a fellow of ACM, fellow of IEEE, fellow of Hong Kong Academy of Engineering Sciences and Senior research fellow of the Croucher Foundation. His current research interests are in quantum Internet and the theory of online learning and optimization. He has been a visiting professor at UCLA, Columbia University, Caltech, Uni. of Maryland, Purdue University, Univ. of Massachusetts at Amherst and INRIA (France). He has been serving at senior editor and associate editor in various IEEE and ACM Transactions, and has received numerous best paper awards in IEEE/ACM conferences as well as teaching awards from CUHK. His personal interests include films and general readings.

All are welcome!



In case of questions, please contact Prof ZUO Jinhang at jinhang.zuo@cityu.edu.hk, or visit the CS Departmental Seminar Web at <https://www.cs.cityu.edu.hk/events/cs-seminars/recent-cs-colloquiums>.