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## DEPARTMENT OF MATHEMATICS

City University of Hong Kong

SEMINAR  
(online via zoom)

### Distributed Network under Communication Information Constraints

by

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**Date: 12 Aug 2020 (Wednesday)  
Time: 3:30 – 4:30 pm**

#### ABSTRACT

Network science is an academic field which studies complex networks such as telecommunication networks, computer networks, biological networks, cognitive and semantic networks, and social networks (Wiki). In these few years, the increased interconnectivity of the mathematical sciences community has led to an increase in joint work from different fields.

A distributed network system (DNS) consists of a large number of small, inexpensive agents deployed over a vast region, in which each agent is capable of collecting, processing information and communication with neighboring agents. Node collaboration is the key for the success of DNSs due to the fact that each node itself is limited by communication range, power, and processing ability.

In this talk, we shall present some recent work on the consensus performance of DNS under network induced imperfect communication.

Online registration:

[https://cityu.zoom.us/meeting/register/tJ0IdeupqzMqE92\\_VP\\_RMlljl\\_2oolZ78u-K](https://cityu.zoom.us/meeting/register/tJ0IdeupqzMqE92_VP_RMlljl_2oolZ78u-K)

*[Participants will receive zoom meeting ID and password by email after registration.]*

**Main Target Audience: Undergraduate, Master and PhD levels**