

# 國立中央大學數學系

## 專題演講

主講人：郭桐惟教授(政治大學資訊科學系)

題目：Network Deployment: From the Ground to the Cloud

演講茶會：2017年11月16日(星期四) 3:30 p.m. ~ 4:00 p.m.

茶會地點：中央大學鴻經館M306

演講時間：2017年11月16日(星期四) 4:00 p.m. ~ 5:00 p.m.

地點：中央大學鴻經館M107

### Abstract：

The deployment of network infrastructure lies the foundation of many networking services as it decides how the clients are served. Currently, the majority of network infrastructure is built on physical facilities like base stations and Wi-Fi access points. When deploying such facilities, we must take the nature of wireless communication into account. The nature of wireless communication, however, poses many challenges. In the first part of the talk, I will talk about wireless network deployment and present some research results. Wireless networks are solutions for last mile networks, which provide Internet access for end users. To fully meet the requests of end users, e.g., HTTP requests, we must further consider the network deployment problem that takes place in the cloud, i.e., data center networks. This kind of network deployment involves facilities like load balancers and firewalls. Recently, due to the emergence of Network Function Virtualization (NFV), there is a trend of transforming from physical facilities to software middleboxes. As a result, we instead deploy virtual facilities on virtual machines in data centers. In the second part of the talk, I will present the challenges and solutions for such network deployment problems.

贊助單位：

1. 國家理論科學研究中心 2. 國立中央大學數學系 3. 國立中央大學數學與理論物理中心

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