

# DISTINGUISHED LECTURE SERIES 2022/23

## UNLEASHING THE POWER OF MOBILE EDGE-CLOUD GENERATIVE AI SERVICES AND AIGC NETWORKS

**12 MAY 2023 (FRI)**  
**9:30 – 10:30 AM (HKT)**

Mr and Mrs YK Jim Christian Worship and Classroom  
(AAB606), Baptist University Road Campus, HKBU /  
Online via Zoom

### **PROF. DUSIT NIYATO**

President's Chair Professor in Computer Science and Engineering  
School of Computer Science and Engineering  
Nanyang Technological University

#### **Abstract:**

Artificial Intelligence Generated Content (AIGC) is an automated method for generating, manipulating, and modifying valuable and diverse data using AI algorithms creatively. This talk aims to on the deployment of AIGC applications, e.g., ChatGPT, at mobile edge networks, i.e., mobile AIGC networks that provide personalised and customised AIGC services in real-time while maintaining user privacy. We begin by introducing the background and fundamentals of generative models and the lifecycle of AIGC services at mobile AIGC networks, which includes data collection, training, fine-tuning, inference, and product management. We then discuss the collaborative cloud-edge-mobile infrastructure and technologies required to support AIGC services and enable users to access AIGC at mobile edge networks. Furthermore, we explore AIGC-driven creative applications and use cases for mobile AIGC networks. We highlight some future research directions and open issues for the full realisation of mobile AIGC networks.

**Enquiries:** +852 3411 2385 / [comp@comp.hkbu.edu.hk](mailto:comp@comp.hkbu.edu.hk)



Speaker's Biography



Event Registration