

Title: On the Driving Forces of Future Network Design - Capacity + Intelligence

Abstract:

This talk takes as the starting point the vision and experiences from UK 5G Innovation Centre (5GIC) and further elaborates two key driving forces and technical challenges in future network design, namely new requirements from future networked applications and the necessity of enabling network automation. The talk takes the envisaged evolution of future multi-sensory, immersive teleportation applications as an example to elaborate on the capacity requirements of future networks. In addition, distributed network intelligence (e.g. AI and machine learning) will also be a key design target, and in this context we outline how intelligence for automated network and service control should be systematically organised across multiple stakeholders in the future network ecosystem.