

專 題 演 講

演 講 者：Dr. Cho-Yu Jason Chiang(Applied Communication Sciences, USA)

演 講 題 目：Verifying Integrity of Cloud Computing Environments for Future 5G
Networks by Remote Attestation

演 講 摘 要：

In this talk I will start with security and privacy concerns for future 5G networks, and explain why such concerns must be addressed for such networks to operate. In particular, the focus will be on possible roles of cloud computing environments for future 5G networks and how to verify the integrity of cloud computing environments. After giving an overview of system integrity and techniques for verifying the integrity of a system, I will describe the application of remote attestation to verify the integrity of a cloud system, and present research results by Applied Communication Sciences in this area. Finally, outstanding issues that remain to be addressed will be discussed.

演 者 講 歷：

Dr. Cho-Yu Jason Chiang is Senior Research Director at Applied Communication Sciences, formerly Telcordia Applied Research, in Basking Ridge, New Jersey, USA. Dr. Chiang has been PI or co-PI on several U.S. government agency-funded research and development programs. Over the years his research spans across many areas, including communication network protocols, network management and operations, mobile ad hoc networks, adaptive communication middleware, policy-based management, cognitive networks, dynamic spectrum access, cyber security, trust in computers and mobile devices, large-scale wireless network testing and testbed, software-defined networking, host and network function virtualization, machine learning, healthcare data analytics, big data, multi-player online gaming, smart grid, as well as cloud-based system infrastructure and security. Dr. Chiang has published over 60 refereed papers in conference proceedings and journals. He has served on the program committees of a number of conferences, including IEEE Big Data 2015, and was a co-chair for the IEEE NOMS 2010 Workshop programs and a co-chair for the IEEE MILCOM 2013 Track 4, “System Perspectives”. Dr. Chiang received his B.S. in Computer Science and Information Engineering from the National Taiwan University and his Ph.D. in Computer Science from the Ohio State University.