

Title: Observation of Current IP Network Issues and Innovation Requirements

Abstract:

As the rapid development of the Internet, diverse applications have been built upon, meanwhile novel use cases are emerging nowadays. The traditional IP-based Internet has exposed a lot of problems. In this talk, I will give an observation of current IP-based network issues arisen by new internet applications and innovation requirements, including IP address namespace flexibility, separating ID semantic out of IP address, IP protocol fields flexibility, better User-Network interfaces, more information from network itself, inherent network security, network automation and intelligence, etc.