IEEE Communications Society Young Professionals Panel Discussion:

This event kicks off with a 5 minute talk by each of the panelists followed by 30 minutes of moderator facilitated panel discussion on the "Trends in Green Communications".

Panelist 1:

Title: Smart Home and Smart Energy Management in Qualcomm Research

Name: Dr. Peerapol Tinnakornsrisuphap, Principal Engineer & Engineering lead for Connected Home, Qualcomm Research, USA

Biography: Peerapol Tinnakornsrisuphap is the engineering lead for Connected Home R&D in Qualcomm Research. His team has addressed many critical issues facing Internet of Things including low power protocol optimization, security and provisioning, multi-hop and mesh networking, and smart energy management. He received Ph.D. in Electrical Engineering from University of Maryland and holds more than 70 US Patents.

Abstract: Overview of Qualcomm's Smart Home and Smart Energy Management Systems.

Panelist 2:

Title: Challenges for 5G Green Cellular Networks

Name: Dr. Xiaodong Xu, Associate Professor, Beijing University of Posts and Telecommunications, China

Biography: Xiaodong XU, Associate Professor in Beijing University of Posts and Telecommunications. His research interests focus on the cellular network architecture, heterogeneous networking, interference mitigation, radio resource management and mobile network virtualization. He published 87 papers, applied 35 patents with 21 patents authorized. He also attended 3GPP standard work with more than 70 proposals submitted and 23 proposals adopted by 4 standards. He has been selected by Beijing Nova Program in 2013. He also served as several TPC members for IEEE ICC, Globecom, VTC and etc.

Abstract: In order to achieve green cellular networks for the 5G system, the way forward of the cellular network architecture evolution trend will be introduced, including the features of user-centric, control plane & user plane separation, ultra-dense cells and heterogeneous deployments. The challenges and research focuses for future 5G green cellular network architecture and networking strategies will also be discussed.