



HUAWEI-SPONSORED ACP'18 WORKSHOP on “Optical technologies for Terabit data center network”

Friday, October 26st, 2018

This Huawei-sponsored ACP'18 workshop is a half-day discussion focused on the novel optical technologies for Tbps and beyond data center network (DCN). During this event, we will provide a platform for participants worldwide to discuss the challenges we are facing for next generation DCN. By mapping these challenges to latest industry solutions, we will create a deep and exhaustive view of the opportunities for cost-effective, low power consumption, large capacity DCN. Invited speakers from leading industrial and academic institutions will be sharing their visions and presenting their advanced research work. This workshop will be open to all participants of ACP 2018.

Topics to be addressed include but are not limited to:

- Communication system architectures in DCN
- Novel technologies for Tbps transmission
- Si photonics, full integrated or semi-integrated?

We look forward to the active participation of researchers, engineers, and business leaders to together contribute to meet the ever-growing demands of DCN.

Co-organizers:

Prof. Chao Lu, Hong Kong Polytechnic University, Hongkong

Speakers:

14:00-14:30 Xie Changsong, Optical and Quantum lab, Huawei Technologies Co., Ltd.

Topic: Towards Terabit DCN Optical Interconnection

14:30-15:00 Zuqing Zhu, School of Information Science and Technology, University of Science and Technology of China

Topic: Technology of China Knowledge-defined Network Orchestration in a Hybrid Optical/Electrical Datacenter Network

15:00-15:30 Qunbi Zhuge, Department of Electronic Engineering, Shanghai Jiao Tong University

Topic: Photonics signal processing for Tbit/s DCI application

15:30-16:00 Coffee Break

16:00-16:30 Shilong Pan, Nanjing University of Aeronautics and Astronautics

Topic: General optical component analyzer for characterizing key devices in Tbit/s data center network

16:30-17:00 Jiajia Chen, School of ICT, KTH

Topic: Communication system architectures and algorithm in DCN/DCI

17:00-17:30 Po Dong, Silicon Photonics Research Department, Bell Labs

Topic: The scalability of silicon photonics in data center applications

17:30-18:00 Guifang Li, University of Central Florida

Topic: few-mode and multi-mode fiber optics for short-reach applications