

Room C (Grand Ballroom 3), 2F

Chair: Takahiro Suzuki (NTT, inc.)

Tu1C

June 30 (Tue), 2026

AI-Native Autonomous Optical Access Networks

08:30-10:00

Tu1C-1

08:30-08:45

Power-Efficient OLT Architectures Enabled by Traffic-Aware AI

Yuanqiu Luo¹, Dezhi Zhang², Yang Lu³, Dekun Liu³, Frank Effenberger¹

¹Futurewei Technologies, ²State Key Laboratory of Optical Fiber and Cable Manufacture Technology,

³Huawei Technologies

Tu1C-2

08:45-09:00

Noise & Interference Loading for Capacity on Demand with Fine-Tuned LLM-Assisted Optical Access Network Automation

Geyang Wang, Lan Zeng, Lian-Kuan Chen

The Chinese University of Hong Kong

Tu1C-3

Invited

09:00-09:30

Resilience Enhancement of Optical Networks via Collaborative Resource and Data Sharing

Sugang Xu¹, Yusuke Hirota¹, Subhadeep Sahoo², Noboru Yoshikane³, Xiaocheng Zhang⁴, Angela Mitrovska⁵, Behnam Shariati⁵, Yuki Yoshida¹, Taiga Suzuki¹, Masaki Shiraiwa¹, Sifat Ferdousi², Takehiro Tsuritani³, Shigenari Suzuki⁴, Pooyan Safari⁵, Johannes K. Fischer⁵, Ronald Freund^{5,6}, Massimo Tornatore⁷, Biswanath Mukherjee^{2,8}, Yoshinari Awaji¹

¹NICT, ²University of California, ³KDDI Research, Inc., ⁴NTT Docomo Business, ⁵Fraunhofer HHI,

⁶Technical University of Berlin, ⁷Politecnico di Milano, ⁸Soochow University

Tu1C-4

Invited

09:30-10:00

Virtualization and PHY Softwarization in Optical Access Networks

Takahiro Suzuki, Jun-ichi Kani, Tatsuya Shimada

NTT, inc.