

Room C (Grand Ballroom 3), 2F

Chair: Sugang Xu (NICT)

Th2C

July 2 (Thu), 2026

Programmable & Disaggregated Optical Infrastructure

10:15-11:45

Th2C-1

10:15-10:30

Joint Decision-Aware Compression and Offloading for Low-Delay Fixed-Mobile Converged Industrial Networks

Mengxin Zhang¹, Yintao Li², Cong Zhu³, Jin Li⁴, Danshi Wang¹, Min Zhang¹

¹Beijing University of Posts and Telecommunications, ²State Grid Jibei Electric Power Company Limited,

³State Grid Jibei Information and Telecommunication Company, ⁴South China Normal University

Th2C-2

10:30-10:45

Prototype and Demonstration of an Optical-Analog-Optical (OAO) Wavelength Converter for Multi-Domain Optical Direct-Connect Architecture

Hiroki Mori, Junnosuke Hiyama, Takeshi Seki, Rie Hayashi, Toshihiko Tamura

NTT, inc.

Th2C-3

Invited

10:45-11:15

Advanced Programmable Transceivers and Quantum-Secure Communications for Future SDN-Enabled Optical Networks

Michela Svaluto Moreolo¹, Javier Vilchez¹, Laia Nadal¹, Joel Compte¹, Antonio Melgar², Jose Manuel Rivas-MoscOSO², Ramon Casellas¹, Josep M. Fabrega¹, Rafael Cantó¹, Raul Muñoz¹

¹Centre Tecnològic de Telecomunicacions de Catalunya, ²Telefónica CTIO

Th2C-4

Invited

11:15-11:45

Policy-Enforced Network Automation using Data Space Principles

Angela Mitrovska^{1,2}, Behnam Shariati¹, Hussein Zaid¹, Aydin Jafari¹, Pooyan Safari¹, Johannes Karl Fischer¹, Ronald Freund^{1,2}

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