

Room A (Grand Ballroom 1), 2F

Chair: Junwen Zhang (Fudan University)

Tu4A

June 30 (Tue), 2026

AI-Native Cognitive Optical Networks

15:00-16:30

Tu4A-1

15:00-15:15

Sequential Loss Estimation Using GNPpy and Ensemble Kalman Filter

Ryu Shinzaki¹, Setsuo Yoshida¹, Keiji Shimada¹, Yukito Tsunoda¹, Yasuhiko Aoki¹, Martin Bouda², Inwoong Kim², Paparao Palacharla²

¹Finity Inc., ²Finity Americas Inc.

Tu4A-2

15:15-15:30

Learning to Adapt: Evolving ML for Evolving Network Infrastructures

Emilio Paolini¹, Andrea Sgambelluri¹, Luca Valcarenghi¹, Piero Castoldi¹, Filippo Ponzini², Teresa Pepe², Giulio Bottari², Paola Iovanna²

¹Scuola Superiore Sant'Anna, ²Ericsson

Tu4A-3

Invited

15:30-16:00

AI-Driven Network Operations for 6G: LLM Based Automated Provisioning with Network Digital Twin Verification

Kwang-koog Lee, Eunjung Lee, Eun-Do Kim, Jung-hyo Lee, Hee-Heon Jung, Jin-Ha Lee, Jemin Chung
KT Corp.

Tu4A-4

Invited

16:00-16:30

Bridging the Trust Gap in AI-Driven Optical Networks with Structured Explainability

Kiarash Rezaei¹, Omran Ayoub², Carlos Natalino¹, Paolo Monti¹

¹Chalmers University of Technology, ²University of Applied Sciences and Arts of Southern Switzerland