

Room A (Grand Ballroom 1), 2F

Chair: Michela Svaluto Moreolo
(Centre Tecnològic de Telecomunicacions de Catalunya)

Tu3A

June 30 (Tue), 2026

Optical Security & Distributed Computing

13:15-14:45

Tu3A-1

13:15-13:30

Securing Physical Layer of Access Networks with Optical Key Distribution

Mateusz Kucharczyk^{1,2}, Jarosław P. Turkiewicz³, Karol Kowalik⁴, Artur Stabrawa¹, Patryk Urban^{1,5}, Konrad Banaszek^{1,2}

¹Quantum Optical Technologies sp. z o.o., ²University of Warsaw, ³Warsaw University of Technology, ⁴Fiberhost S.A., ⁵West Pomeranian University of Technology

Tu3A-2

13:30-13:45

Two-Layer Chaotic Encryption for Alamouti-Coded Simplified Coherent Systems

Xiaoqian Liu, Jifan Yin, Chun-Kit Chan
The Chinese University of Hong Kong

Tu3A-3

13:45-14:00

Optical-Switching-Based Memory Sharing for High-Bandwidth Distributed Computing

Qishen Liang¹, Bin Zhang^{1,2}, Zichao Zhao¹, Lingzhi Yuan¹, Baojie Hou¹, Haoran Ma¹, Yongdi Zhang¹, Bangmin Gong¹, Huihui Zhu¹, Yuehai Wang¹, Jianyi Yang^{1,3}

¹Zhejiang University, ²Zhejiang Lab, ³Jinhua Institute of Zhejiang University

Tu3A-4

14:00-14:15

Deployment of AI Workflows over Multi-Cluster Distributed Computing Infrastructures

Salvatore Spadaro, Albert Pagès, Enric Guasch, Fernando Agraz
Universitat Politècnica de Catalunya

Tu3A-5

Invited

14:15-14:45

Metro/Access Converged Network Technology

Shin Kaneko, Jun-ichi Kani, Tatsuya Shimada
NTT, inc.