

Room A (Grand Ballroom 1), 2F

Chair: Benedikt Geiger
(Karlsruhe Institute of Technology)

Tu1A

Advanced Optical Technologies

June 30 (Tue), 2026

08:30-10:00

Tu1A-1

08:30-08:45

Feedback-Free Photonic Reservoir Computing Enabled by a Commercial SOA

Suhua Wang, Tingyu Fu, Jiajun Ji, Jiajia Shen, Mingyi Gao
Soochow University

Tu1A-2

08:45-09:00

Reservoir Computing Equalization for Long-Distance Indoor Optical Wireless Communication

Cuiwei He¹, Chen Chen², Chengwei Fang³, Ke Wang³, Christina Lim⁴

¹Japan Advanced Institute of Science and Technology, ²Chongqing University, ³RMIT University, ⁴University of Melbourne

Tu1A-3

09:00-09:15

Simultaneous Compensation of Chromatic Dispersion and SPM in A-RoF Transmission

Kaito Okada, Toshiaki Shitaba, Akihiro Tanabe, Youichi Fukada, Ryo Miyatake, Masayoshi Sekiguchi, Tatsuya Shimada
NTT, inc.

Tu1A-4

09:15-09:30

All-Optical MFM System Using Phase-Locked P1 Semiconductor Laser Dynamics

Yu-Huai Chang, Hao-Wen Weng Lin, Yu-Han Hung
National Sun Yat-Sen University

Tu1A-5

09:30-09:45

High-Capacity Digital Coherent Complex Optical Reservoir Computing with Long Optical Fiber Loop

Toshihiko Hirooka, Masataka Nakazawa
Tohoku University

Tu1A-6

09:45-10:00

Generating a Large Time-Bandwidth Product Linear Chirp Signal based on Dual-OFCs

Xiaonan Chen, Liao Chen, Yifan Du, Ye Tian, Rongwu Liu, Yang Liu, Chi Zhang, Xinliang Zhang
Huazhong University of Science and Technology