

Room D (Capri), 2F

Chair: Inwoong Kim (1Finity)

Tu4D

June 30 (Tue), 2026

DSP for Short-Reach Optical Access

15:00-16:30

Tu4D-1 Invited 15:00-15:30

Real-Time FPGA Implementation of a PTBC DSP Architecture for Coherent-Lite Fronthaul Optical Access Links

Hun-Sik Kang, Chanho Park, Jung-Yeol Oh, Jongwan Kim, Joon Ki Lee, Hae Young Rha
Electronics and Telecommunications Research Institute

Tu4D-2 15:30-15:45

Mini-Batch Gradient Descent Adam Algorithm for Fast-Converging Volterra Equalizers

Jaeyoon Kim, Hoon Kim
Korea Advanced Institute of Science and Technology

Tu4D-3 15:45-16:00

A Novel 3-D SVDD System with 64-Point Stokes Constellation for Short-Reach Optical Communication

Weiqi Lu, Yuhao Fang, Puzhen Yuan, Jiwei Xie, Dayu Shi, Haojie Zhu, Zexu Liu, William Shieh
Westlake University

Tu4D-4 16:00-16:15

Amplitude-Directed DD-LMS Equalizer for Multipath Interference Mitigation in IMDD PAM4 Systems

Runlin Tan, Meng Xiang, Junjiang Xiang, Gai Zhou, Songnian Fu, Yuwen Qin
Guangdong University of Technology

Tu4D-5 16:15-16:30

Performance Comparison of Transition and Level-Based Equalization in Direct-Modulated Laser-Based IM/DD Optical Links

Meng-Ci Sie, Benedictus Yohanes Bagus Widhianto, Jyehong Chen, Meng-Ting Zhou, Ming-Lin Kan
National Yang Ming Chiao Tung University