

Room D (Capri), 2F

Chair: Sheng-Kwang Hwang
(National Cheng Kung University)

Tu1D

June 30 (Tue), 2026

Photonic Devices in Wireless Optical Communications

08:30-10:00

Tu1D-1 Invited 08:30-09:00

Terrestrial Wireless Optical Communication Integrated into a Photonic Module

Devin Brinkley, Tymon Barwicz, Jean-Laurent Plateau, Ondrej Čierny, Greg Allan, Danielius Kramnik, Sanam Mozaffari, Michael Caverley
Taara Connect

Tu1D-2 09:00-09:15

Amplitude-Modulated Overhead Assisted Magnitude-Squared Cross-Correlation Frame Synchronization for Pilot-Aided DSP in Coherent Optical Satellite Communication

Shoma Tateno, Hidemi Noguchi, Kohei Hosokawa
NEC Corp.

Tu1D-3 09:15-09:30

65-dB Link-Budget C-Band Free-Space Optical Transmission Using a Directly Modulated InP-PCSEL

Shota Ishimura¹, Takeshi Aoki^{2,3}, Takuya Inoue³, Yuhki Itoh^{2,3}, Kosuke Fujii², Makoto Ogasawara^{2,3}, Hiroyuki Yoshinaga^{2,3}, Yusuke Sawada^{2,3}, Shun Kimura², Naoki Fujiwara^{2,3}, Hideki Yagi², Masaki Yanagisawa², Hidenori Takahashi¹, Takehiro Tsuritani¹, Ryohei Morita³, Masahiro Yoshida³, Menaka De Zoysa³, Kenji Ishizaki³, Susumu Noda⁴
¹KDDI Research, Inc., ²Sumitomo Electric Industries, Ltd., ³Kyoto University, ⁴Kyoto University Institute for Advanced Study

Tu1D-4 09:30-09:45

200-Gb/s/1.2-km Free-Space Optical Links Employing a Triplet-Lens System and Metasurfaces

Chun-Cheng Liang, Wei-Zhi Jiang, Yen-Chen Chen, Yen-Jen Chen, Hai-Han Lu
National Taipei University of Technology