

Room D (Capri), 2F

Chair: Devin Brinkley (Taara Connect)

Mo1D

June 29 (Mon), 2026

Free-Space Optical Satellite Communications

13:00-14:30

Mo1D-1

13:00-13:15

Pilot-efficient Adaptive Equalization Enabled Synthetic Aperture Reception for Tbit/s-class Satellite-Ground FSO Links

Haoyu Zhang^{1,2}, Fang Dong^{1,2}, Chaoxu Chen^{1,2}, Yuan Wei^{1,2}, Jianyang Shi^{1,2}, Junwen Zhang^{1,2}, Nan Chi^{1,2}
¹Fudan University, ²Shanghai Engineering Research Center

Mo1D-2

13:15-13:30

Dynamic Adaptive Beam Control Using a Variable-Focus Liquid Lens for Free-Space Optical Systems

Seyun Oh, Hoon Kim

Korea Advanced Institute of Science and Technology

Mo1D-3

Invited

13:30-14:00

Advancing 6G NTN for Integrating LEO Satellite Laser Communications with FSO and 5G NR

Wei-Ting Huang¹, Chi-Hsiang Hsu¹, Feng-Ti Chen¹, Jia-Hui Chou¹, Ting-Wei Zhang², Ming-Ta Yang², Hai-Han Lu¹

¹National Taipei University of Technology, ²Industrial Technology Research Institute

Mo1D-4

14:00-14:15

Experimental Comparison Between Quadrant Detector and 4×4 Photodetector Array for Fast Beam Tracking in Free-Space Optical Systems

Mat T. Nguyen, Woohyeon Moon, Hoon Kim

Korea Advanced Institute of Science and Technology

Mo1D-5

14:15-14:30

An Expanding-Window Network Coding Design for Satellite-to-Ground Optical Communications

Luozhang Liang, Bingli Guo, Jiayi Wang, Xuwei Xue, Yu Zhou, Shanguo Huang

Beijing University of Posts and Telecommunications