

Room D (Capri), 2F

Chair: Hongseok Shin (SK Telecom)

Tu2D

June 30 (Tue), 2026

Sub-THz and THz Wireless Transmission

10:15-11:45

Tu2D-1

10:15-10:30

Sub-THz Signal Generation Using Optical Heterodyne Detection of Cavity-Locked Lasers and Receiver DSP

Dohun Koh¹, Kyungmin Woo², Hoon Kim¹

¹Korea Advanced Institute of Science and Technology, ²Electronics and Telecommunications Research Institute

Tu2D-2

10:30-10:45

Integrated Secure Communication and Radar Jamming Empowered by THz Photonics

Junhao Zhang^{1,2}, Mingzheng Lei², Qing Zhong^{1,2}, Min Zhu^{1,2}, Junjie Ding², Long Zhang², Bingchang Hua², Yuancheng Cai², Jiao Zhang², Xingyu Chen², Jianjun Yu^{2,3}

¹Southeast University, ²Purple Mountain Laboratories, ³Fudan University

Tu2D-3

Invited

10:45-11:15

Feasibility and Performance of Photonics-Assisted Sub-THz Wireless X-haul Links

Sang-Rok Moon, Sooyeon Kim, Minkyu Sung, Seung-Hyun Cho
Electronics and Telecommunications Research Institute

Tu2D-4

11:15-11:30

OptoChannelDiffusion: Conditional Latent Diffusion Channel Model for G-band Fiber-Terahertz Integrated Communication Systems

Liangtao Chen, Chengxi Wang, Yuan Wei, Yinjun Liu, Boyu Dong, Yaxuan Li, Nan Chi, Junwen Zhang
Fudan University

Tu2D-5

11:30-11:45

Improved Pilot-Assisted Equalization in Phase-Noise-Limited Terahertz OFDM Links

Bowen Liu, Hitomi Uemura, Takasumi Tanabe
Keio University