

Session Title:	[Tu2H] Microwave Photonics for Sensing Applications
Session Date:	August 6 (Tue.), 2024
Session Time:	16:00-17:30
Session Room:	Room H (117)
Session Chair(s)	Prof. Kyung Hyun Park (ETRI, Korea)

[Tu2H-1] [Invited] 16:00-16:30

Sensing and Signal Processing based on Integrated Microwave Photonics

Xiaoke Yi, Xiaoyi Tian, Liwei Li, Suen Xin Chew, and Linh Nguyen (The Univ. of Sydney, Australia)

[Tu2H-2] 16:30-16:45

Ranging Enhancement of Optical Phased Array-based Lidar Enabled by Optical Passive Amplification

Lanxuan Zhang, Qijie Xie, Quanxin Na, Lei Wang (Peng Cheng Lab., China), Junfeng Song (Jilin Univ., China), and Lijun Wang (Changchun Inst. of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences, China)

[Tu2H-3] 16:45-17:00

Photonically-generated Multiband Complementary Dual Chirp Waveforms for Range and Velocity Detection

Mukund Jha, Rajveer Dhawan, Anu Sharma, and Amol Choudhary (Indian Inst. of Tech. Delhi, India)

[Tu2H-4] 17:00-17:15

Simultaneous Velocity and Distance Measurement using a Single Asymmetric Dual-Chirp for FMCW RADARs

Anu Sharma, Rajveer Dhawan, Mukund Jha, and Amol Choudhary (Indian Inst. of Tech. Delhi, India)

[Tu2H-5] 17:15-17:30

Mid-Infrared Chaos Lidar Based on an Interband Cascade Laser

Kai-Li Lin, Peng-Lei Wang, Yi-Bo Peng (ShanghaiTech Univ., China), Peng Wang, Wenxiang Huang (Raytron Tech. Co., Ltd., China), and Cheng Wang (ShanghaiTech Univ., China)