

Room F (Sicily), 2F

Chair: Takuo Tanemura (The University of Tokyo)

Th1F

July 2 (Thu), 2026

LiDAR & Optical Phased Arrays

08:30-10:00

Th1F-1 Invited 08:30-09:00

Tunable Lasers with InP-Gain Regions on Si Photonic Circuits Using Chip-on-Wafer Bonding

Takuo Hiratani^{1,2,5}, Kento Komatsu^{1,2,5}, Hidenari Fujikata^{1,2}, Naoki Fujiwara^{1,2,5}, Naoko Inoue^{1,2,5}, Takehiko Kikuchi^{1,2,5}, Takuya Mitarai^{1,2,5}, Shun Kimura^{1,2}, Takuya Okimoto^{1,2,5}, Yusuke Sawada^{1,2}, Eiichi Banno^{1,3}, Takashi Matsui³, Takeshi Fujisawa⁴, Nobuhiko Nishiyama^{2,5}, Hideki Yagi^{1,2,5}

¹Sumitomo Electric Industries, Ltd, ²Photonics Electronics Technology Research Association, ³Sumitomo Electric Device Innovations, Inc., ⁴Hosei University, ⁵Institute of Science Tokyo

Th1F-2 09:00-09:15

A Quasi-Monostatic Focal-Plane-Array LiDAR on a 200-mm Silicon Photonics Platform

Guillaume Croes¹, Mathias Prost¹, Huaqing Qiu¹, Manuel Reza¹, Jac Romme², Javier Perez Santacruz^{1,2}, Elbert Bechthum², Ziduo Lin¹, Jochem Govers², Pawel Bemnowicz², Brecht Berteloot¹, Esteban Venialgo², Erik Emmen¹, Tangla D. Kongnyuy¹, Nicolas Chauvet², Peter Girouard², Maliheh Ramezani¹, Puvendren Subramaniam¹, Padraic E. Morrissey³, Sean Collins³, Matthew L. Hall³, Peter O'Brien³, Christian Bachmann², Ruud Oldenbeuving², Joost Brouckaert¹, Dongjae Shin², Roelof Jansen¹, Peter Gerets¹, Marcus S. Dahlem¹

¹imec, ²imec Netherlands, ³Tyndall National Institute

Th1F-3 09:15-09:30

Line-Beam LiDAR Based on a 128-Channel Monolithic Polymer-SiN Optical Phased Array

Eun-Su Lee¹, Jinung Jin¹, Yoon-Ho Sunwoo², Yun-Jae Kwon², Seong-Hyeon Ju³, Sun-Woong Yoon³, Kwon-Wook Chun¹, Jung-O Son³, Sang-Shin Lee², Min-Cheol Oh¹

¹Pusan National University, ²Kwangwoon University, ³i3system

Th1F-4 09:30-09:45

Short-Cavity DFB Laser with 38.7-GHz Chirp Bandwidth in SiPh FMCW LiDAR

Yen-Wei Li¹, Te-Hua Liu¹, Yi-Hsuan Chen¹, DongDong Li², Jhih-Jia Kang², Teng-Hsiang Chang², Chao-Hsin Wu¹

¹National Taiwan University, ²Delta Electronics

Th1F-5 09:45-10:00

OPLL-Driven Optical Frequency Chirp Linearization for Coherent FMCW LiDAR with Enhanced Linearity and Stability

Jongpil La, Jieun Choi, Jungwon Chang
Lambda innoVision Inc.