

Room B (Grand Ballroom 2), 2F

Chair: Kwangyong Song (Chung-Ang University)

Tu1B

June 30 (Tue), 2026

Distributed Fiber-Optic Sensing II

08:30-10:00

Tu1B-1

08:30-08:45

Kilometer-Range Strain Sensing Using Slope-Assisted PPRM-BOCDR

Takumi Morikawa¹, Keita Kikuchi^{1,2}, Ryo Inoue¹, Yosuke Mizuno², Heeyoung Lee¹

¹Shibaura Institute of Technology, ²Yokohama National University

Tu1B-2

08:45-09:00

Linear-Region Extension of Slope-Assisted BOTDR by Using Linear Frequency-Modulated Pulses

Lihuang Li, Jiageng Chen, Yang Zhang, Mengying Ru, Zuyuan He

Shanghai Jiao Tong University

Tu1B-3

09:00-09:15

Bridging the Domain Gap in DAS: Adapting Vision Foundation Models for Infrastructure Security

Yangmin Ding, Sarper Ozharar, Ting Wang

NEC Labs America, Inc.

Tu1B-4

09:15-09:30

Up to Two Orders of Magnitude Data Volume Reduction in Distributed Fiber Sensing by Compressed Wavelets

Antonia Baies^{1,2}, Amirhossein Ghazisaeidi¹, Rajiv Boddeda¹, Haik Mardoyan¹, Christian Dorize², Sterenn Guerrier¹, Jérémie Renaudier¹

¹Nokia Bell-Labs France, ²Ecole Polytechnique

Tu1B-5 Invited

09:30-10:00

Fiber Optic Sensing Using Submarine Cables

Miguel Gonzalez-Herraez¹, Maria R. Fernandez-Ruiz², Hugo F. Martins¹, Javier Macias-Guarasa², Erick E. Ramirez-Torres², Daniel Pizarro², Javier Tejedor³, Pedro J. Vidal-Moreno², Sira E. Palazuelos-Cagigas², Sonia Martin Lopez¹, Ethan Williams⁴, Zhongwen Zhan⁴, Roel Vantillo⁵

¹CSIC, ²University of Alcalá, ³Universidad San Pablo CEU, ⁴California Institute of Technology, ⁵Marlinks