

Session Title:	[Tu1G] Optical Reflectometry
Session Date:	August 6 (Tue.), 2024
Session Time:	11:00-12:30
Session Room:	Room G (116)
Session Chair(s)	Prof. Atsushi Shibukawa (Hokkaido Univ., Japan)

[Tu1G-1] 11:00-11:15

Proposal of Dual-Laser Brillouin Optical Correlation-Domain Reflectometry

Guangtao Zhu (Yokohama Nat'l Univ., Japan), Hiroshi Takahashi, Yusuke Koshikiya (NTT Corp., Japan), Heeyoung Lee (Shibaura Inst. of Tech., Japan), and Yosuke Mizuno (Yokohama Nat'l Univ., Japan)

[Tu1G-2] 11:15-11:30

Sensitivity Enhancement Through Triangular Chirped-Pulse Phase OTDR

Numan Kifayat and Hoon Kim (KAIST, Korea)

[Tu1G-3] 11:30-11:45

Pulse Coded BOTDA Sensing System based on Optical Orthogonal Code and SEFDM

Mingzheng Huang and Changjian Guo (South China Normal Univ., China)

[Tu1G-4] 11:45-12:00

Data Volume Reduction of Optical Correlation-domain Reflectometry by Application of Compressed Sensing

Yuki Katsutani, Kohei Noda, Takuma Shirahata, Shinji Yamashita, and Sze Yun Set (The Univ. of Tokyo, Japan)

[Tu1G-5] 12:00-12:15

Frequency-Modulated Continuous-Wave Ranging through Timing Jitter Correction

Ting-Qing Liao, Ting-Chia Chang, Shih-Hsiang Hsu, and Shien-Kuei Liaw (Nat'l Taiwan Univ. of Science and Tech., Taiwan)

[Tu1G-6] 12:15-12:30

Two-Dimensional CNN Based on Vertical Edge Detection and Density-Based Spatial Clustering for ϕ -OTDR Vibration Recognition



Xia Gao, Xin Qin (China Telecom Research Inst., China), Yong Zhang (China Telecom Beijing Branch, China), Yi Ding (China Telecom Research Inst., China), Qiang Fu (China Telecom Zhejiang Branch, China), Qian Hu (China Telecom Research Inst., China), Yan Zhang (China Telecom Beijing Branch, China), Jixiong Huang (China Telecom Guangxi Branch, China), and Xiankun Zhu (China Telecom Research Inst., China)