

Room G (Miami), 2F

Chair: Han Cheol Ryu (Sahmyook University)

Th1G

July 2 (Thu), 2026

Precision Optical Sensing and Measurement

08:30-10:00

Th1G-1

08:30-08:45

Co-Optimization of Aperiodic Spacing and Fishbone Grating Coupler for SiN Optical Phased Arrays Using Enhanced PSO

Yi-Ting Lin, Xiu-Ru Yang, Shih-Hsiang Hsu
National Taiwan University of Science and Technology

Th1G-2

08:45-09:00

All-optical Atomic Magnetometer for Dual-axis Magnetic Field Measurement with Polarizationmodulated Light Beam

Nuozhou Xu^{1,2}, Shudong Lin^{1,2}, Ying Zhou^{1,2}, Xiaoyu Li^{1,2}, Peiling Cui^{1,2}, Jixi Lu^{1,2}
¹ Beihang University, ²Hefei National Laboratory

Th1G-3

09:00-09:15

Photometric Stereo with Parabolic Mirror for 3D Reconstruction of Specular Surfaces

Sang-Jun Kim^{1,2}, Hyun Woo Ko^{1,3}, Sunghyun Han^{1,3}, Hamong Shim⁴, Seung Ah Lee⁵, Paul Hongsuck Seo³, Min-Chul Park^{1,2,3}, Seon Kyu Yoon⁴
¹Korea Institute of Science and Technology, ²Yonsei University, ³Korea University, ⁴Korea Photonics Technology Institute, ⁵Seoul National University

Th1G-4

09:15-09:30

AI-Assisted Reflectance Spectroscopy for Mural Pigment Degradation Detection

Rui Niu^{1,2,3}, Zunyue Zhang^{1,2,3}, Zhenzhou Cheng^{1,2,3}
¹State Key Laboratory of Precision Measuring Technology and Instruments, ²Tianjin University, ³Ministry of Education

Th1G-5

Invited

09:30-10:00

Broadband Source-Driven Resonant Optical Gyroscope

Huilian Ma¹, Binjie Li¹, Yaqi Yong¹, Qingwen Liu², Zuyuan He²
¹Zhejiang University, ²Shanghai Jiao Tong University