

Room 1

Session 3-1-1: GS11 Optical metrology I

GS11-04 Research on TSV depth measurement technique using interferometric spectroscopy

Zizheng Wang, Z. Liu, C.i Bai, C. Yao, X. Sun and C. Hu

GS11-10 Precise Angular Alignment of Birefringent Axes for Polarization Maintaining Fiber Based Electrooptic Sensing Probe

Seung Kwan Kim and Sun Do Lim

GS11-11 An optical sensor for three-axis angle measurement employing imaging sensors

Misaki Hosoya, Ryo Sato, Jiucheng Wu, Hiraku Matsukuma and Wei Gao

GS11-12 The centroid-based automatic segmentation and weighted localization algorithm for the center of the focused laser spot

Huixu Song and Qingwei Li

GS11-14 Six Degree-of-freedom Pose Metrology Based on Dual-comb Ranging

Ruilin Jiang, Jinming Li, Lijiang Zeng and Guanhao Wu

Session 3-1-2: GS11 Optical metrology II

GS11-15 Straightness measurement with laser beam and deep learning

Ukyo Takata, Satoru Takano, Yohei Yamada, Toshinori Yasuhara, Kohsei Terao and Masato Aketagawa

GS11-17 Second Harmonic Generation (SHG) Angle Sensor based on a Collimated Femto-second Laser Beam

Jiahui Lin, Zhiyang Zhang, Ryo Sato, Hiraku Matsukuma and Wei Gao

GS11-18 Investigation on Performance of Fabry-Pérot Angle Sensor using Mode-locked Femtosecond Laser

Dong Wook Shin, Ryo Sato, Hiraku Matsukuma and Wei Gao

GS11-20 Overcoming Single-Photon Detector Limitations in Quantum Ghost Imaging: A Data Processing Approach

Elie Magnon, Yasuhiro Mizutani, Tsutomu Uenohara and Yasuhiro Takaya

GS11-22 Applying Deep Learning to Far-field Intensity Distribution for Extreme Ultraviolet Mask Defect Inspection Based on Scatterometry

I-Chih Huang, Jia-Han Li, Chao-Te Lee and Wen-Hao Chao

Session 3-1-3: GS11 Optical metrology III

GS11-23 Enhanced 3D Surface Profilometry of Chromatic Confocal Microscopy with Spatially Varying Richardson-Lucy Deconvolution

Han-Ju Tsai, Wei-Chi Hung, Ching-Chia Yen and Liang-Chia Chen

GS11-24 Spectroscopic measurement with machine learning for optical sensors employing an ultrashort pulse laser

Yusuke Kobayashi, Dong Wook Shin, Ryo Sato, Hiraku Matsukuma and Wei Gao

GS11-25 Design of a Small-Angle Laser Scanning Ranging System with Stationary-Reference

Qingzhao Yang, Liheng Shi, Lijiang Zeng and Guanhao Wu

GS11-26 2D displacement measurement with sinusoidal phase modulation interferometry

Itsuki Nagaoka, Taku Sato, Masato Higuchi and Masato Aketagawa

GS10-02 Micro/nano vibration suppression of a flexible macro-micro manipulator

Lingwei Meng, Yannan Mo, Zixuan Yu, Chen Wang and Yiling Yang

Session 3-1-4: GS12 Dimensional metrology

GS12-02 R-test for identifying a kinematic model of articulated arm coordinate measuring machines

Tomoaki Kashiwa and Soichi Ibaraki

GS12-04 High-accuracy measurement of wheel tread geometric parameters based on laser displacement sensors

Qixin He, Hao Yuan, Jing Yang, Fajia Zheng and Qibo Feng

GS12-07 Theoretical modeling of fluorescent confocal detection for surface position determination in dimensional measurement

Motoya Yoshikawa, S. Masui, S. Kadoya, M. Michihata and S. Takahashi

GS12-10 Optical calibration system for resin gauges used in X-ray CT

M. Watanabe, K. Matsuzaki, O. Sato, M. Kajima and T. Watanabe

GS12-12 Experimental characterization of contact stiffness using an on-machine measurement device

Kaho Hirano, Atsushi Matsubara and Kotaro Mori