

Room 5

Session 3-5-1: OS15 Nano-scale measurements and calibrations IV

OS15-19 Diameter measurement of microprobe tip ball using a non-contact contour measuring machine

Daichi Inukai, S. Ito, T. Tomioka, K. Matsumoto and K. Kamiya

OS15-23 Improving spatial resolution of passive near-field microscope by fabricating ultra sharp tungsten tips

Jizhou Tang, Kuan-Ting Lin and Yusuke Kajihara

OS15-25 A High Precision Capacitive Absolute Angular Displacement Sensor with a Cross-Signal Transmission Structure Changliang Wu, Bingnan Zhan, Zhicheng Yu, Xingchen Fan and Peiyu Yu

OS15-22 A high precision point cloud registration method for micro-nano CMM and white light interference based on a triangular frustum calibrator, Yunlong Liu, Ruijun Li, Zhenying Cheng and Yonghong Wang

OS15-24 Prediction of the main measurement errors of conical grating interferometer based on grating diffraction wavefront

Lin Liu, Zhaowu Liu, Wei Wang, Shan Jiang and Wenhao Li

Session 3-5-2: OS15 Nano-scale measurements and calibrations V

OS15-27 Femtosecond laser absolute encoder employing a variable line spacing grating Ryota Okimura, Ryo Sato, Hiraku Matsukuma and Wei Gao

OS15-15 A compact non-orthogonal Lloyd's interferometer for fabrication of two-axis scale gratings, Satoshi Kodaka, Chenguang Yin, Ryo Sato, Hiraku Matsukuma and Wei Gao

OS15-29 Nano-Bubble Shape Deformation Investigation in Multi-Darkfield Optical Microscopy

Hibiki Fujishima, Panart Khajornrungruang, Yuki Ohta

OS15-30 Pellin-Broca Prism for Plenty of Multi- wavelengths in Evanescent Optical System with Chromatic Aberration Reducibility Shuka Ouchida, Panart Khajornrungruang and Yuki Ohta

OS15-31 Evaluation of internal residual stress of injection molded-plastic parts through THz wave

Weiyen Chen, N. Murata, M. Tachioka, N. Yagi, S. Wang and Y. Kajihara

Session 3-5-3: OS15/OS14 Nano-scale measurements and calibrations VI Ultra precision controls

OS15-34 High-resolution ghost imaging with correlation learned neural network for defect inspection in a large area

Shoma Kataoka, Y. Mizutani, T. Uenohara and Y. Takaya

OS15-35 Depth Estimation For Autostereoscopic 3D Surface Measurement Using A Deep Encoder-decoder Network

Sanshan Gao and Chi Fai Cheung

OS14-02 Compound fuzzy control- based position tracking accuracy improvement method

Hongfang Chen, Bailing Liu, Ziqi Liang and Zhaoyao Shi

OS14-04 Effect of Additional Compensator Based on Internal Model Principle in Precision Motion Control

Xuan Gan, Mizuki Takeda and Kaiji Sato

OS14-05 On the Stiff Spring Effect of Linear Ball Guides and its Functions towards Ultra Precise Positioning

Shigeru Futami

Session 3-5-4: GS03/GS05 Forming Electro-Physical, Chemical Processes

GS03-01 Experimental Evaluation of a Flowability in Casting Using by Proposed New Test Method

Hiraku Minoura, M. Nikawa, K. Mu and M. Yamashita

GS03-03 Surface quality of titanium alloy upon pre-compression amount in compliant blisk polishing

Tingyue Bai, Shuai Chen, Zhitong Chen and Zhenglong Fang

GS03-05 Effect of Chromium Carbide Coating on Mold Releasability from Ground Surface in Compression Molding of Thermosetting Phenol Resin

Ryoji Kitada, C. Sun, Q. Wang, K. Yoshida and A. Okada

GS05-02 Observation of growth behavior of silver precipitates in glass

Hirofumi Kawamura, K. Meguro, S. Matsusaka, K. Hara and H. Isobe