GS12 Dimensional metrology						
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GS12-01 Design and Realization of Three-line Step Height and Surface Roughness Certified Reference Materials

Sunghoon Eom and Jonghan Jin

GS12-02 R-test for identifying a kinematic model of articulated arm coordinate measuring machines Tomoaki Kashiwa and Soichi Ibaraki

Hiroshima University

GS12-03 Simulation Study on the Measurement of Fuel Rod Oxide Layer Thickness by Eddy Current Ji Li, Zhiyong Deng, Sanjie Gao and Bin xu Nuclear Power Institute of China

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

GS12-05 A point-by-point probing method for roundness metrology of small cylinders with the coordinate measuring machine

Jiali Zhao, Zihan Wang, Yan Zhao and Qiaolin Li Lanzhou University of Technology

GS12-06 Influence of relative intensity in metal-polymer assembly evaluation by X-ray computed tomography Daniel Gallardo, Lucía Díaz, José A. Albajez and José A. Yagüe-Fabra

University of Zaragoza

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

Motoya Yoshikawa, Shuzo Masui, Shotaro Kadoya,

Masaki Michihata and Satoru Takahashi

The University of Tokyo

GS12-08 Optimization of multiple-orientation dimensional measurement on X-ray CT

Osamu Sato, Mari Watanabe, Kazuya Matsuzaki,

Mariko Kajima, Souichi Telada, Tsukasa Watanabe,

Youichi Bitou and Toshiyuki Takatsuji

National Institute of Advanced Industrial Science and Technology

GS12-09 A High-precision Displacement Measurement Method based on Ultrasonic Travelling Waves in Crystals

Mingshu Wu, Bai Ji, Guancoing Tao, Yuge Zhang and

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

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

National Institute of Advanced Industrial Science and Technology

GS12-11 Improving the accuracy of workpiece pose estimation of robotic bin picking from stationary and mobile depth cameras

Pung Kyu Lee, Seongin No and Huitaek Yun

Korea Advanced Institute of Science and Technology

GS12-12 Experimental characterization of contact

stiffness using an on-machine measurement device

Kaho Hirano, Atsushi Matsubara and Kotaro Mori

Kawasaki Heavy Industries, Ltd.

GS12-13 Aggregation-value-based active sampling method for multi-sensor freeform surfaces

measurement and reconstruction

Gengxiang Chen, Yingguang Li, Charyar Mehdi-Souzani and Xu Liu

Université Paris-Saclay USPN

GS12-14 Integrated metrology in manufacturing: connecting digital twins and applications in metal forming

Enrico Savio