

Room 6

Session 2-6-1: OS12 Micro / Nano systems I

OS12-01 Miniaturized peristaltic pipe travelling robot capable of moving in the 30mm diameter pipe

Yujie Shi, Masato Mizukami, Naohiko Hanajima and Yoshinori Fujihira

OS12-02 Molding of dissolving microneedle arrays

Yuusei Takaki, Harunori Takei, Natsumi Amano, Takahiro Ito, Sunao Murakami, Tomohiro Hikima, Hirotsada Tsubaki, Masaaki Matsuo, Masaya Hara, Yasunori Tashiro and Takahiro Oniki

OS12-03 Impulse-Driven Traveling Capsule Endoscope - Wireless Power Supply Position Control -

Kenji Miyauchi, Kohei Fujita, Takahiro Ito, Sunao Murakami and Toshihiro Kimura

OS12-04 Mechanical behavior of nanoclay/polyester composite coatings for pre-coated metal sheets

Weikang Lin, Grant Edwards, Shuning Song, Michael Heitzmann, Darren Martin, Mingyuan Lu, Lisbeth Grøndahl and Han Huang

Session 2-6-2: OS12 Micro / Nano systems II

OS12-05 Impedance Matching Between a Waveguide and a Transmission Line Using a Flexible Conductive Membrane Micro-actuator for Beyond 5G/6G Communication

Chao Qi, Sangyeop Lee and Tadahiko Shinshi

OS12-09 An Ultra-Thin Variable Aperture Mechanism Using a Micro Flat Motor with a Multi-Pole Ring Magnet

Keita Nagai, Riku Fukazawa, Yu Okawara, Haruhiro Komura and Tadahiko Shinshi

OS12-06 High Thermal Stability Design Method for a Dual-axis Photoelectric Level

Yong-Jun Wang, Rui-Jun Li, Wan Fang and Peng-Hao Hu

OS12-08 Development of a two-dimensional large-stroke nanopositioning table

Jie Li, Rui-Jun Li, Yi Hu and Jun-Rui Li

Session 2-6-3: OS04 CAD/CAM technologies

OS04-01 Tool path generation considering workpiece deformation due to vice clamping

Koki Kuroda, Hidenori Nakatsuji and Isamu Nishida

OS04-02 Tool Path Generation for Five-Axis Controlled Swarf Machining Considering Machining Error Caused by Tool Axis Change

Tatsuki Ono and Koichi Morishige

OS04-03 Detection of sphere contact shape for automotive safety verification

Linxuan He and Masatomo Inui

OS04-04 Concurrent process and feedrate scheduling with analytical Gaussian-based process basis function

Shuntaro Yamato, Takashi Yanagitani, Burak Sencer and Anthony Beaucamp