

Room 8

Session 2-8-1: OS02 Life cycle and smart engineering

OS02-01 Real-time intelligent chatter detection for precision milling using CNN model
Tong Zhu, Carman K. M. Lee, Denghui Li, Suet To and Wai Sze Yip

OS02-02 Influence of mist generation by machining process on visibility to control motor drive in built-in mist collector for machine tools
Kosuke Yamamoto, Yuta Noro, Toshiki Hirogaki, Masao Nakagawa and Eiichi Aoyama

OS02-03 Modeling Object-Concepts in Engineers' Thinking under Digital Triplet Framework
Yiming Hou, Shinsuke Kondoh, Yasushi Umeda, Masahiro Nishio and Koji Makino

OS02-05 Extraction of Knowledge for Plant Inspection based on Behavior Comparison between Experts and Novices
Hiroto Kitamori, Y. Umeda, J. Ota, H. Asama, S. Kasahara, N. Yamato, H. Ito, T. Daito, S. Tamura, T. Kato, M. Korenaga, A. Sasamura and F. Nonaka

Session 2-8-2: GS07 Additive Manufacturing I

GS07-06 Direct observation of bubbles inside the molten pool in laser welding of alumina
Daijiro Tokunaga, Yuko Aono and Atsushi Hirata

GS07-07 Bead shape stabilization method under laser scanning speed changing condition by controlling deposition conditions for powder DED process
Yusuke Yamamoto and Ryuta Sato

GS07-13 Additive manufacturing of fine capillary wick with hybrid porous structure using a toolpath-based design
Shujie Tan, Pengfei Zhang, Xu Meng, Liping Ding and Yicha Zhang

GS07-14 Rotary TIG WAAM Particle Simulation
Andrea Bimbi, Masahiro Kawabata, Togen Tsunekawa and Hiroyuki Sasahara

Session 2-8-3: GS07/OS09 Additive Manufacturing II Non-traditional machining and additive manufacturing I

GS07-01 Height Control of Microstructures Directly Extruded by Fused Deposition Modeling Processes
Yunlong Han, J. Sun, Y. Zhang, Q. Xiao, H. Jing, Z. Li, Y. Guo, Q. Wang, M. Lv, W. Wang, Y. Wang, Z. Li and L. Zhang

GS07-03 Design, Fabrication, and Evaluation of Properties Of Novel Hybrid Lattice Structures
Şeymanur Sirtli, Cem Batur, Elmas Salamci, Hamed Tanabi and Metin Uymaz Salamci

OS09-25 Highly Efficient Surface Smoothing of AMed Metal Products by Long-pulse Electron Beam Irradiation
Xuze Zhao, Togo Shinonaga and Akira Okada

OS09-24 Femtosecond laser studies on ablation efficiency and surface quality of alumina
Taiga Tanaka, Ryo Koike, Yasuhiro Kakinum, Hideki Aoyama, Yusuke Ogiso and Tomoki Nagae

GS05-04 Transient Simulation of arc plasma in Electrical Discharge Machining
Chen Liu and Xiaodong Yang