

17th Nov. 09:00-10:40

Finalist Presentations

Part1

Webroom1

Session Chair

(OS1)

Norikazu Suzuki(Chuo University)

(OS2)

Yukitoshi Ihara(Osaka Institute of Technology)

(OS5)

Katsuhiko SAKAI(Shizuoka University)

09:00 I01 (134)	Fine pattern fabrication on a 3D surface using fast tool servo for milling process Yuta KOJIMA(1)(*)(c) Hayato YOSHIOKA(1) Shingo TAJIMA(1) (1)Tokyo Institute of Technology
09:15 I02 (26)	Monitoring of Long-term Changes in Geometric Errors of a Five-axis Machine Tool by Self-calibration for Touch-trigger Probe Measurement Shota ONISHI(1)(*)(c) Soichi IBARAKI(1) Masashi YAMAGUCHI(2) Takao SUGIMOTO(3) (1)Hiroshima University (2)Kawasaki Technology, Co., Ltd. (3)Kawasaki Heavy Industries, Ltd.
09:30 I03 (51)	High-efficiency machining of titanium alloy using combined machining method of driven rotary tool and hule cutting Yuto Yamazaki(1)(*)(c) Teshuo Takada(1) Hideharu Kato(1) (1)Kanazawa Institute of Technology
09:45 I04 (154)	Anisotropic Micro Cutting of Rolled Titanium Alloy Shoichi TAMURA(1)(*)(c) Tetsushi KABURAGI(2) Yuichiro KAMAKOSHI(2) Takashi MATSUMURA(3) (1)Ashikaga University (2)Gunma Industrial Technology Center (3)Tokyo Denki University
10:00	Q&A (Finalist Presentations Part 1)

17th Nov. 10:40-11:40

## Finalist Presentations

### Part2

#### Webroom1

Session Chair

(OS3)

Jun'ichi KANEKO(Saitama University)

(OS4)

Hayato Yoshioka(Tokyo Institute of Technology)

(OS6)

Naohiko Sugita(The University of Tokyo)

10:40 I05 (59) Optimization of Workpiece Placement in Production Operation Using Industrial Robot (Application to Sealing Operation)

Koichi MORISHIGE(1)(\*)(c)

Takuya MIZOKAMI(1)

Kei MORIGUCHI(1)

(1)The University of Electro-Communications

10:55 I06 (87) Evaluation and Comparison of Coupling Stiffness and Damping based on Frequency Characteristics

Ryuta SATO(1)(\*)(c)

Makoto TANIYAMA(1)

Massimiliano RIGACCI(1)

Taichi SASAKI(2)

Keiichi SHIRASE(1)

(1)Kobe University

(2)Miki Pulley Co., Ltd.

11:10 I07 (21) High Speed Precision Dry Hobbing Replacing Conventional Hobbing and Shaving

Tatsuro TAKAGI (1)(\*)(c)

Noritaka FUJIMURA(1)

Keisuke YOSHIKAWA(1)

Kazuyuki ISHIZU(1)

Manami GOTO(2)

Syuhei KUROKAWA(2)

(1)Mitsubishi Heavy Industries Machine Tool Co., Ltd.

(2)Kyushu University

11:25 Q&A (Finalist Presentations Part 2)

17th Nov. 13:00-14:40

## Finalist Presentations

### Part3

#### Webroom1

Session Chair

(OS7)

Takazo Yamada(Nihon University)

(OS8)

Keisuke Suzuki(Kyushu Institute of Technology)

(OS10)

Noboru TAKANO(Toyama University)

(OS9)

Hirofumi Hidai(Chiba University)

13:00 I08 (14)	Observations on abrasive wear damages on engineering ceramics using micro-Raman tomography Teppei ONUKI(1)(*)(c) Hiroataka OJIMA(1) Jun SHIMIZU(1) Libo ZHOU(1) (1)Ibaraki University
13:15 I09 (29)	Effects of viscoelastic behavior of polishing pad on edge roll-off during silicon wafer polishing Urara SATAKE(1)(*)(c) Toshiyuki ENOMOTO(1) (1)Osaka University
13:30 I10 (113)	Tool Path Generation and Optimization for Diamond Turning Based on Independently Controlled Fast Tool Servo Yusuke SATO(1)(*)(c) Jiwang YAN(1) (1)Keio University
13:45 I11 (74)	High-speed processing of glass by sweeping high-temperature region formed by femtosecond pulse and continuous-wave lasers Chaoran WEI(1)(*)(c) Reina YOSHIZAKI(1) Yusuke ITO(1) Akihiro SHIBATA(2) Ikuo NAGASAWA(1) Keisuke NAGATO(1) Naohiko SUGITA(1) (1)The University of Tokyo (2) AGC Inc.
14:00 I12 (162)	Observation of melt pool dynamics and material removal with different dielectrics in electrical discharge machining Qi LI(1)(*)(c) Xiaodong YANG(2) Masanori KUNIEDA(1) (1)The University of Tokyo (2)Harbin Institute of Technology
14:15	Q&A (Finalist Presentations Part 3)

17th Nov. 15:00-16:40

Finalist Presentations

Part4

Webroom1

<p>Session Chair (OS11) Masahiko YOSHINO(Tokyo Institute of Technology) (OS14) Hajime MIZUYAMA(Aoyama Gakuin University) (OS12) Satoru TAKAHASHI(The University of Tokyo) (OS15) Toru EGUCHI(Hiroshima University)</p>	
<p>15:00 I13 (49)</p>	<p>Fabrication of Micro-oscillator by Printing technologies of Au thin film and graphene oxide Yuto KASUGA(1)(*)(c) Keisuke KANADA(1) Arata KANEKO(1) (1)Tokyo Metropolitan University</p>
<p>15:15 I14 (6)</p>	<p>Complex plate spring manufacturing with a laser quenching and forming process based on Origami engineering Hirokazu ONISHI(1)(*)(c) Yuki MANABE(1) Toshiki HIROGAKI(1) Eiichi AOYAMA(1) (1)Doshisha University</p>
<p>15:30 I15 (102)</p>	<p>Investigation of Measurement Range of a Differential Chromatic Confocal Probe employing a Mode-Locked Femtosecond Laser Ryo SATO(1)(*)(c) Hiraku MATSUKUMA(1) Yuki SHIMIZU(1) Wei GAO(1) Andreas FISCHER(2) (1)Tohoku University (2)University of Bremen</p>
<p>15:45 I16 (156)</p>	<p>Evaluation of the Free Spectral Range of an Etalon by Referring an Optical Frequency Comb Tatsuya KUME(1)(*)(c) Hiromasa YASUDA(2) Tsutomu MIBE(1) Masaki MICHIHATA(2) Satoru TAKAHASHI(2) (1)High Energy Accelerator Research Organization (KEK) (2)The University of Tokyo</p>
<p>16:00 I17 (138)</p>	<p>A Method of Proactive Job Shop Scheduling Considering Reworking and Reprocessing Eiji MORINAGA(1)(*)(c) Kenta TERAMOTO(2) Hidefumi WAKAMATSU(2) (1)Osaka Prefecture University (2)Osaka University (3)YANMAR Co., Ltd.</p>

16:15	Q&A (Finalist Presentations Part 4)
17th Nov. 17:00-18:00	
Finalist Presentations Part5 Webroom1	
Session Chair (OS16) Yashushi Umeda(The University of Tokyo) (OS13) Hiroyuki Narahara(Kyushu Institute of Technology)	
17:00 I18 (124)	Acquisition of expert's knowledge for high-mix and low-volume production scheduling problem Shinsuke Kondoh(1)(*)(c) Hitoshi Komoto(2) Hideaki Takeda(3) Yasushi Umeda(1) (1)The University of Tokyo (2)National Institute of Advanced Industrial Science and Technology (AIST) (3)National Institute of Informatics
17:15 I19 (150)	Basic study of fabrication conditions for foam stainless in directed energy deposition Toshihiro TAKEUCHI(1)(*)(c) Ryo KOIKE(1) Yasuhiro KAKINUMA(1) Masaki KONDO(2) Yohei ODA(2) Takanori MORI(2) (1)Keio University (2)DMG MORI Co. Ltd.
17:30 I20 (57)	Melt pool behaviour during laser powder bed fusion process - Influence of laser incident angle on the scattering of spatter particles Kotaro TSUBOUCHI(1)(*)(c) Tatsuaki FURUMOTO(2) Mitsugu YAMAGUCHI(2) Shinnosuke YAMADA(3) Mototsugu OSAKI(3) Kenji SUGIYAMA(3) (1)Kanazawa University (2)Kanazawa University(AMTI) (3)Daido Steel Co., Ltd.
17:45	Q&A (Finalist Presentations Part 5)