Webroom1	7th Nov. 09:00-10:40				
Webroom1 Session Chair (QS1) Session Chair (QS1) Norikazu Suzuki(Chuo University) (QS2) Yukitoshi Ihara(Osaka Insitute of Technology) (QS5) Katsuhiko SAKAI(Shizuoka University) 0900 Fine pattern fabrication on a 3D surface using fast tool servo for milling process (1) (134) Hyado VOSHIOKA(1) Shingo TAJIMA(1) (11Tokyo Institute of Technology (26) Sota ONISHI(1)*(1c) Measurement (27) Stota ONISHI(1)*(1c) Masashi YAMAQUCH(2) Takao SUGIMOTO(3) (1) (28) Stota ONISHI(1)*(1c) Stota ONISHI(1)*(1c) (28) Stota ONISHI(1)*(1c) (28) Stota ONISHI(1)*(1c) (28) Stota ONISHI(1)*(1c) Takao SUGIMOTO(3) (1) (1) (24) Masashi Heavy Industries, Ltd. 09:30 (35)	Finalist Presentations				
Session Chair (OS1) Norikazu Suzuki(Chuo University) (OS2) Yukitoshi Ihara(Osaka Insitute of Technology) (OS3) Katsuhiko SAKAI(Shizuoka University) Image: Comparison of the pattern fabrication on a 3D surface using fast tool servo for milling process 0101 011 01 Fine pattern fabrication on a 3D surface using fast tool servo for milling process Image: Comparison of the pattern fabrication on a 3D surface using fast tool servo for milling process 0101 01 Fine pattern fabrication on a 3D surface using fast tool servo for milling process Image: Comparison of the pattern fabrication on a 3D surface using fast tool servo for milling process 0101 01 Fine pattern fabrication on a 3D surface using fast tool servo for milling process Image: Comparison of the pattern fabrication for Touch-trigger Probe 02.15 Monitoring of Long-term Changes in Geometric Errors of a Five-axis Machine Tool by Self-calibration for Touch-trigger Probe 02.6 Solid ONISH(1)(')(c) Takao SUGIMOTO(3) (1)(Hiroshima University (2)(Kawasaki Technology, Co., Ltd. (3)(Kawasaki Heavy Industries, Ltd. 03.0 Hgh-efficiency machining of titanium alloy using combined machining method of driven rotary tool and hale cutting 'Uto Yamazaki(1)(')(c) Teshuo Takada(1) Hideharu Kato(1) (1)(Kanzawa Institute of Technology 03.0 Shich TAMURA(1)(')(c) Testushi KABURAG(2) 'Uto Yamazaki Interno Cutting of Rolled Titanium Alloy 04.1 Anisotropic Micro Cutting of Rolled Titanium Alloy 'I)(Abshinga University 015 Shich TAMURA(1)(')(c) Tatashi MATSUMURA(3)	Part1				
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(OS2) Yukitoshi Ihara(Osaka Insitute of Technology) (OS5) Katsuhiko SAKAI(Shizuoka University) 09:00 Fine pattern fabrication on a 3D surface using fast tool servo for milling process 01 Yuta KOJIMA(1)(*)(c) Hayato YOSHIOKA(1) Shingo TAJIMA(1) (134) Yuta KOJIMA(1)(*)(c) Hayato YOSHIOKA(1) Shingo TAJIMA(1) (1) (1) Tokyo Institute of Technology 09:15 Monitoring of Long-term Changes in Geometric Errors of a Five-axis Machine Tool by Self-calibration for Touch-trigger Probe 02 Bota ONISHI(1)(*)(c) Soicha IBARAKI(1) Measurement (26) Shota ONISHI(1)(*)(c) Soichi IBARAKI(1) Masashi YAMAGUCHI(2) Takao SUGIMOTO(3) (1)Hiroshima University (28) Solad ONISHI(1)(*)(c) Takao SUGIMOTO(3) (1)Hiroshima University (29)Kawasaki Technology, Co., Ltd. (2)Kawasaki Technology, Co., Ltd. (30)Kawasaki Heavy Industries, Ltd. (2)Kawasaki Technology (310) High-efficiency machining of titanium alloy using combined machining method of driven rotary tool and hale cutting (311) Yuto Yamazaki(1)(*)(c) Takasati(1) Testue Takada(1)					
Yukitoshi Ihara(Osaka Insitute of Technology) (OS5) Resultiko SAKAI(Shizuoka University) 09:00 Fine pattern fabrication on a 3D surface using fast tool servo for milling process 101 Yuk KOJIMA(1)(°)(°) Hayato YOSHIOKA(1) Shingo TAJIMA(1) (134) Yuk KOJIMA(1)(°)(°) Hayato YOSHIOKA(1) Shingo TAJIMA(1) (11) (1)Tokyo Institute of Technology 09:15 Monitoring of Long-term Changes in Geometric Errors of a Five-axis Machine Tool by Self-calibration for Touch-trigger Probe 02 Measurement (26) Shota ONISHI(1)(°)(°) Shota ONISHI(1)(°)(°) Soichi IBARAKI(1) Masashi YAMAGUCH(2) Takao SUGIMOTO(3) (1)Hiroshima University (2)Kawasaki Technology. Co., Ltd. (3)Kawasaki Heavy Industries, Ltd. (3)Kawasaki Heavy Industries, Ltd. 09:30 High-efficiency machining of titanium alloy using combined machining method of driven rotary tool and hale cutting (154) Arisotropic Micro Cutting of Rolled Titanium Alloy 09:45 Arisotropic Micro Cutting of Rolled Titanium Alloy (154) Shotich TAMURA(1)(°)(c) Testushi KABURA(2)(2) Yuichiro KAMAKOSH(2)					
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10:00 JQ&A (Finalist Presentations Part 1)					
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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 Optimization of Workpiece Placement in Production Operation Using Industrial Robot (Application to		
I05 Sealing Operation)		
Koichi MORISHIGE(1)(*)(c) Takuya MIZOKAMI(1)		
Kei MORIGUCHI(1)		
(1)The University of Electro-Communications		
10:55 Evaluation and Comparison of Coupling Stiffness and Damping based on Frequency Characteristics		
(87) 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 High Speed Precision Dry Hobbing Replacing Conventional Hobbing and Shaving		
(21) 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	Observations on abrasive wear damages on engineering ceramics using micro-Raman tomography
13.00	observations on abrasive wear damages on engineering ceramics using micro-roaman tomography
(14)	Teppei ONUKI(1)(*)(c)
(14)	Hirotaka OJIMA(1)
	Jun SHIMIZU(1)
	Libo ZHOU(1)
	(1)Ibaraki University
13:15	Effects of viscoelastic behavior of polishing pad on edge roll-off during silicon wafer polishing
109	Effects of viscoelastic behavior of polishing pad on edge foll-on during silicon water polishing
(29)	Urara SATAKE(1)(*)(c)
(23)	Toshiyuki ENOMOTO(1)
	(1)Osaka University
	(1)Osaka Oniversity
13:30	Tool Path Generation and Optimization for Diamond Turning Based on Independently Controlled Fast Tool Servo
110	······································
(113)	Yusuke SATO(1)(*)(c)
	Jiwang YAN(1)
	(1)Keio University
13:45	High-speed processing of glass by sweeping high-temperature region formed by femtosecond pulse and continuous-wave lasers
111	
(74)	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.
	Observation of melt pool dynamics and material removal with different dielectrics in electrical discharge machining
I12	
	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	

Sessio	on Chair				
	(OS11)				
`	Masahiko YOSHINO(Tokyo Institute of Technology)				
	(OS14)				
•	e MIZUYAMA(Aoyama Gakuin University)				
-					
(OS12	,				
	TAKAHASHI(The University of Tokyo)				
(OS15					
	GUCHI(Hiroshima University)				
	Fabrication of Micro-oscillator by Printing technologies of Au thin film and graphene oxide				
113					
(49)	Yuto KASUGA(1)(*)(c)				
	Keisuke KANADA(1)				
	Arata KANEKO(1)				
	(1)Tokyo Metropolitan University				
15:15	Complex plate spring manufacturing with a laser quenching and forming process based on Origami engineering				
114					
(6)	Hirokazu ONISHI(1)(*)(c)				
	Yuki MANABE(1)				
	Toshiki HIROGAKI(1)				
	Eiichi AOYAMA(1)				
	(1)Doshisha University				
15:30	Investigation of Measurement Range of a Differential Chromatic Confocal Probe employing a Mode-Locked Femtosecond Laser				
115					
(102)	Ryo SATO(1)(*)(c)				
	Hiraku MATSUKUMA(1)				
	Yuki SHIMIZU(1)				
	Wei GAO(1)				
	Andreas FISCHER(2)				
	(1)Tohoku University				
	(2)University of Bremen				
15:45	Evaluation of the Free Spectral Range of an Etalon by Referring an Optical Frequency Comb				
15.45 116					
(156)	Tatsuya KUME(1)(*)(c)				
(150)	Hiromasa YASUDA(2)				
	Tsutomu MIBE(1)				
	Masaki MICHIHATA(2)				
	Satoru TAKAHASHI(2)				
	(1)High Energy Accelerator Research Organization (KEK)				
	(2)The University of Tokyo				
16:00	A Method of Proactive Job Shop Scheduling Considering Reworking and Reprocessing				
117					
(138)	Eiji MORINAGA(1)(*)(c)				
	Kenta TERAMOTO(2)				
	Hidefumi WAKAMATSU(2)				
	(1)Osaka Prefecture University				
	(2)Osaka University				
	(3)YANMAR Co., Ltd.				

17th	Nov. 17:00-18:00	
	ist Presentations	
Part5		
Webroom1		
	n Chair	
(OS16)		
· /	, shi Umeda(The University of Tokyo)	
(OS13)		
	ki Narahara(Kyushu Institute of Technology)	
17:00 I18	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	
	Basic study of fabrication conditions for foam stainless in directed energy deposition	
I19 (150)	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	Melt pool behaviour during laser powder bed fusion process - Influence of laser incident angle on the scattering of spatter	
	particles	
(57)	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)	