15th November, 2021

								Technical S	Session(online)													
12:40 0004 / 5	2	WebRoom 1		WebRoom 2		WebRoom 3		V	VebRoom 4	0040 (Det4	10,40	NebRoom 5		١	WebRoom 6		W	/ebRoom 7		V	/ebRoom 8	12:40
12:40 US01 / F	Part1 12: AC	20 I nermal stabilization of machine tool spindle by feedback temperature control								Vasubiro	12:40 E01 (60)	grating with reduction of the effect of thermal expansion										12:40
Morimoto	o(Kanaz									TAKAYA(Osak	(00) (a											
Technolo	ogy) 12:	:55 Passive cooling of machine tool spindle for	-							Yasuhiro	12:55	Brownian motion simulation of SiO2 abrasive										
13:00 Hayato Yoshioka	AC (Tokyo (9)	02 reduction of cooling energy 13)	OS02 / Part1	13:00 Vision Based Two-Dimensional Measurement	1					MIZUTANI(Osi ka Universitv)	a E02 (178)	nanoparticle on SIC substrate sunace	OS13 / Part1	13:00	Analysis of the Heat treatment effects on							13:00
Institute Technolo	of ogy)		Soichi Ibaraki/Hiroshim	(55)									Hiroyuki Sasabara/Toky	(41)	Wire and Arc Additive Manufacturing Technique							
	13: A0	:10 Air cooling structure design of built-in motor 03 spindle of turning machine	a University)								13:10 E03	Probe Diameter Correction Gauge for Micro- CMM Using Fabry-Perot Interferometer -	o University of Agriculture and	,								
13:15	(14	42)	Yukitoshi Ihara(Osaka	13:15 Influence of Tool Length and Profile Errors on B02 Cubic-machining Test Accuracy	OS05 / Bort1	12:00 The influence of the Littra Eine Bubble (LIER	1				(149)	High-precision distance measurement of two surface -	Technlogy)	13:15 F02	Study on support size dependency for support removal of metal additive manufacturing	CE00 / Dort1	12:20	Realization of high discharge frequency I C				13:15
			Insitute of Technology)	(17)	Hirohisa	C01 inserted Coconut oil-based metalworking flui (5) (MWF) on tool wear modes and mechanism	id Is						Ryo Koike(Keio University)	o (147)		Tobru	G01 (151)	generator for EDM				
13:30				13:30 Behavior of Speed and Acceleration in the S-	NARITA(Meijo	(³⁾ in turning of Inconel 718								13:30	Mechanical properties of SUS329J4L	Ishida(Tokushi	m (131)					13:30
				B03 Shaped Test (88)	Jun'ichi	13:35 Cutting Oil Absorption into the Small-Diamet	ter							F03 (25)	fabricated by wire and arc additive manufacturing	Shinya	13:35	The bubble movement process in micro EDM	-			
	13:	:40	-		KANEKO(Saita ma University)	(123)	OS07 / Part1	13:40 D01	The Experimental Study of Ultra Fine Bubble in Coolant on Surface Grinding	s	13:40					Hayakawa(Nag	g G02 (118)	drilling from generation to escape	OS16 / Part1	13:40	Preparing Big Data of Surface Roughness for Smart Manufacturing	or
13:45		084 (004 B-+4)					Kazuhito	(171)				014 (0040 D-14)		13:45 F04	Effect of Heat from LMD Process on Hardness of Martensitic Steel	Technology)			Hiroyuki Sawada (AIST)	(9)	ů.	13:45
		Q&A (UST Parti)				13:50 Effect of lubricant on tool wear in finished C03 surface formation area of rounded nosed too	a University)					Q&A (US12 Part 1)		(112)			13:50 G03	Measurement of Discharge Reaction Force in Wire Electrical Discharge Machining using	Tomohisa			
14:00 00004 / 5	2- +2 44	.00 Evolution of the Influence of Context between		14.00		(188)	Takazo Yamada(Nihon	13:55 D02	Fundamental characteristics of rubber-bonde grinding wheel	d	44.00	The study of wide renear measurement of the		44:00			(141)	Hopkinson Bar Method	Tanaka (Tokyo Institute of	13:55 H02	Analyzing information flow collected across planning and execution stages of machine tools operations	14:00
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14:15 Daisuke	14:	:15 Study on method for avoiding chatter vibration						D03 (106)	Surface Topography in Creep Feed Grinding	Shinva MORIT	A 14:15	Nanoparticle sizing for CMP slurry using	-							H03 (18)	State by Acoustic Emission Signal Analysis	14:15
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			Yukitoshi	(91)		084 (005 P-+ 4)							Tatsuaki	(83)	Zn dissimilar alloys					14:25 H04	Machine learning-based shape error estimation in micromilling by using motor	
14:30	14: A0	:30 Development of non-contact excitation system 07 to simulate intermittent cutting	Insitute of			Q&A (US5 Part 1)					14:30 E07	Fabrication Method of an L-Shaped Stylus with a Sharp Tip for Measuring Wall	Zawa	a				Q&A (US9 Part 1)		(37)	current	14:30
	(14	46)	Akinori		0005 (D. 10	11.1.10 Development of alextraciated of ball and					(16)	Roughness	Takevuki	14:35 F06	Microstructure and residual stress distributio of Ti6Al4V alloy via laser metal wire deposition with double loser irrediction back	n n		This Unit Constant incide a Units by Manual of				
14:45			Saito(Nihon University)		USUS / Partz	C05 endmill tool for helical boring of CFRP plate		14:40			14:45	Residual stress measurement based on	Abe(Saitama University)	(56)		Weters	G05	Electrical Discharge Machining - Effect of Guide Groove Shape on Created Hole Shape	-	14:40		14:45
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				B07 Geometric Deviations of Multi-tasking Machin (75) Tools by a Touch-trigger Probe	Technology)	14:55 Fundamental study of electro-discharge	_				(,	layer - Raman spectroscopic study for stress measurement in the vicinity of an indentation		F07 (104)	block-shape formation with direct energy deposition method	Agriculture and	14:55	Possibility of Compositionally Graded Surface	-			
15:00	15:	:00	1		Shigehiko	(46) assisted hybrid cutting for UD CFRP	OS07 / Part2	15:00	In-process measurement of grinding surface		15:00					Kai	G06 (65)	Formation by Electrical Discharge Machining	OS16 / Part2	15:00	Tool Condition Monitoring Method Assisted	by 15:00
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Atsushi Matsuba	ra(Kyoto	(4)		Q&A (OS2 Part 2)		C08 Releasability from Milling Surface in Compression Molding of Thermosetting		15:30	Experimental Evaluation of Reaction Induced	Hiroki SHIMIZU(Kyus	(128) sh	grophene men menna near near mereoepy			Q&A (OS13 Part 2)		G08 (110)	Flow Formed by High-speed Wire Running in Multi-wire EDM Slicing	or roominology,	15:30	Development of machine-learning based	15:30
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15:45			Akinori	(139) Rise	•					University)			Ryo Koike(Keio	o (78)	SUS316L					15:45	Applying the Concept of Digital Triplet to Production Systems Consulting	15:45
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16:00			Ihara(Osaka Insitute of	(32) Laser Welding Robot	OS05 / Part3	16:00 Turn Mill Processing Using NC Lathe and A C09 Spindle	ur -	16:00					University)	(159)		OS09 / Part3	16:00 G09	Investigation of surface characteristics of porous materials processed with		16:00		16:00
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16:30		Q&A (OS1 Part3)				16:30 Investigation on minimum limit of torsional to	Kurokawa(Kyus hu University)	5				Q&A (OS12 Part 3)		F12 (172)	channels with various cross-sectional shapes	6	16:30	Study on improvement of transfer accuracy in ECM of fine taper hole	Maruyama (Fujitsu		00313	16:30
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16:45				Q&A (OS2 Part 3)		16:45 Time domain simulation of turning process considering amplitude-dependency in process damping	ss	40.50	Descent of Obviolation in the Second						Q&A (OS13 Part 3)		16:45 G12	Simulation of edge-sagging phenomenon in electrochemical machining of cooling holes	University)	40.50	An alexandra lafarana a di comu	16:45
						(179) damping		16:50 D11	Process of Straightening with 3-point and 4- point Bending for Curved Brass Rack								(170)			16:50 H11	Accelerating interence speed of CNN for visual inspection by filter pruning	
17:00					-	17:00		(95)								_	17:00		-	(191)		17:00
								17:05	Consideration of features and the optimal for	m										17:05	Development of a Learning Factory Based o	<i>x</i> n
						Q&A (OS5 Part 3)		D12 (90)	of rib of a small and high-strength spiral bew gear fabricated using five-axis controlled machining center	H								Q&A (OS9 Part 3)		H12 (189)	Digital Triplet' Concept	
17:15																						17:15
						- 1		17:20 D13	Improvement of Gear Unit Load and Noise Reduction by Optimal Design of Tooth											17:20 H13	Semantic Annotation-based Knowledge Representation for Smart Manufacturing: A	
								(192)	Surface Using Principal Component Analysis	5										(11)	Case of Experimental Results	
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12:	40 OS03 / Part1	12:40 A14	Study on Inference of Operation Parameters for Die and Mold Machining by Machine Learning Based on Evaluations					-																12:40
12.	+> Jun'ichi — KANEKO(Saita ma University)	(120)	Contining Dased on Evaluations																					12:45
	Keiichi	12:55 A15	Tool-path control for singularity avoidance of 5-axis machine tool by combining circular arc																					
13:	NAKAMOTO(To kyo University of Agriculture and	(135)	and cubic spline	OS11 / Part1	13:00 B14	Fabrication of single layer flexible through-hole electrodes using imprinting										OS13 / Part4	13:00 F14	Curved Surface Deposition in Additive Manufacturing for Cloth Products Using Composite Material with Continuous Fiber						13:00
	Technlogy)	13:10	Intention learning for decision of machining	Masahiko YOSHINO(Toky o Institute of	y (45)											Tateno(Meiji University)	(92)							
13:	15	A16 (161)	sequence via Deep Learning	Technology)	13:15 B15	Fabrication of adhesive water repellency film by nanoimprint lithography	-									Tomohisa	13:15 F15	Evaluation of Antibacterial and Mechanical Properties of 3D Shaped Metal-containing	-					13:15
		13:25	Automation of Painting Path Generation for	Arata KANEKO(Toky o Metropolitan	(47)		OS05 / Part4	13:20 C14	Surface Texturing Technique by Ultrasonic Turning to Produce Low Friction Surface for Various Materials							I anaka(I okyo Institute of Technology)	(20)	PLA resin	OS10 / Part1	13:20 G14	Drilling of Microholes in Cemented Tungsten Carbide using Diamond Cutting Tools			
13:	30	A17 (42)	Industrial Robots (Development of Painting Simulator)	University)	13:30	Verification of Demolding Assist Effect with	SUZUKI(Chuo University)	(70)									13:30	Combined Process of 3D Printing and Joining	MIZUTANI(Toh oku University)	(13)				13:30
	-				B16 (137)	Compressed Air Due to Difference in Ventilation Direction of Breathable Mold	Ryutaro	13:35 C15	Cutting Technology of Titanium Aluminide Alloy Blades and Its Effect on Microstructure								F16 (40)	Plastic Parts	Mitsuyoshi	13:35 G15	Workpiece Setting Errors Compensation for Efficient Ultraprecision Machining of a Free-			
13:	45	13:40					hima University)	(71)		OS09 / Part4	13:40 D14 (110)	Pattern machining by using the electrochemical machining through electrolyte absorbed with porous material					13:45	Development of ice 3D printer applying	Prefectural University)	a (89)	Form Surface with Micro-Grooves	OS04 / Part1	13:40 Development of an electro-adhesive han H14 the function of contact and slip detection (50)	nd with n 13:45
	-		Q&A (OS3 Part 1)					13:50	Study on cutting mechanism of mold steel in	Kunieda(The University of	(113)						F17 (127)	supercooling phenomenon		13:50	Investigation of Two Patterns Structure Mode	Sato(Kobe University)	(50)	
								(97)	textured tool	Tokyo) Tomohiko	13:55 D15	Observation of gap phenomenon in electrochemical machining by using electrolyt								(19)	Non-woven Fabric		13:55 Consideration of Biaxial Flexible Suppor H15 Table for Fine Positioning Through Cont	rt trolled
14:	00 OS03 / Part2	14:00 A18 (52)	Digital twinning of multi-axis machine tool for micro process planning		14:00			14:05	Small-diameter drilling by ultrasonic vibration	Koyano(Kanaza wa University)	a (168)	suction tool with auxiliary anode	OS12 / Part5 Panart	14:00 E18 (101	 High precision cavity length measurement of external cavity diode laser 		14:00					_	(114) Magnetic Attraction Forces	14:00
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14:	Electro-	14:15 A19	Using four-dimensional geometric models for representing dynamic machining process				_				(66)	Irradiation Method	hu Institute of Technology)	14:18 E19	5 3D Lithography Using Talbot Effect - Controlling the Periodicity of Structures by								(125) Specializing in Turning Motion	14:15
	, Koji	(58)	based on parallel processing by GPGPU	Noritsugu	14:20 B18 (157)	Friction and Wear Behaviors of Textured Metal Surfaces by Vibration-assisted Microcutting in Dry Sliding		14:20			14:25	Surface Smoothing and Surface Modification	Hiroshi MURAKAMI(T	(163) Th) Deep Learning -	Tomohisa	14:20 F18 (35)	Graph-based Optimization of Continuous Extrusion Path in FRP-AM for Compliant Mechanism Fabrication		14:20				
14:	TERAMOTO(Mi roran Institute of	14:30	High-Precision Machining of Free-Form Surfaces Based on Correction of Ball End Mill	UMEHARA(Na goya University))				Q&A (OS5 Part 4)		D17 (111)	of Maraging Steel by Large-area EB Irradiatio	e University of Kitakyushu)	f 14:30	Compensation of the influence of AFM probe tip on measurement of a cutting edge profile	Tanaka(Tokyo Institute of	(00)				Q&A (OS10 Part 1)			14:30
	(connoiogy)	(53)	Bending	Masahiko YOSHINO(Tok)	14:35 B19	Influence of Lubricant Physical Property Models on Thermal Elastohydrodynamic Lubrication Solutions	0000 / Post	44.40	Oto to a second state of the Oto Second		44-40		-	(99)	based on the edge reversal method	Technology) Toshitake	14:35 F19	A Study on Light Resistance of Specimens by Stereolithography	0040 (Darto	44.40	Internet of OEDD Dearding Observation		44.40	
14:	45	14:45	Parallel Contour-Type Cutter Path	o Institute of Technology)	(28)		Yanhua	C18 (79)	CMP on a patterned silicon wafer		14:40			14:4:	5 Evaluation of characteristics of microprobing	Tateno(Meiji University)	(152)		Jiwang	G18 (100)	Using Surface Textures		14:40	14:45
	-	A21 (30)	Computation Using GPU		14:50 B20	Direct observation of contact surface deformation by X-ray CT	Zou(Utsunomiy a University)					Q&A (OS9 Part 4)		E21 (143	system using detection of surface interaction force		14:50 F20	Development of a Positioner for Taking an MRI of an Experimental Mouse's Lumbar	YAN(Keio University)				Q&A (OS4 Part 1)	
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-	-	10.00			15:05	Surface modification of metal surface using	Institute of Technology)	(132)	alternating magnetic field	Yasuhiro	D18 (48)	for Multi-stage Forming		10.00					oku University)	(131)		Yasuhiro	H18 Stack Actuators during Temperature Co (181) by Liquid Cooling	ontrol
	-		Q&A (OS3 Part 2)		B21 (145)	of its tribological properties		15:10 C20	Investigation on the Abrasive Phenomenon of Colloidal SiO2 Particles and Water-soluble	Okamoto(Okay ama University)				Q&A (OS12 Part 5)					15:10 G20	Realization of arbitrary phase control of dual- periodic structures using interference	Kakinuma(Keio University)		
15:	0S03 / Part3	15:20	Modelling of fixturing force reduction caused		15:20	1	-	(94)	C60 Inclusion Complex Particles in the CMP Process of the 4H-SiC Substrate Wafer	Hirofumi HIDAI(Chiba	15:15 D19	Improvements on Machinability and Efficiency for Laser-assisted Machining of Titanium Alloys via Experimental and Thermal Analyse	OS12 / Part6	15:20	A MEMS device for straightness		15:20			(54)	lithography		15:15 Effects of Shaft Offset on Vibration and Contact Area Based on High-Speed Thermography Monitoring under Hypoid	I Tooth 15:15
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15:	AOYAMA(Keio ³⁰ University)					Q&A (OS11 Part 2)		(67)	workpieces		15:30 D20	High-speed observation of stress wave propagation and damage generation during	HAYASHI(Kyu yu University)	us				Q&A (OS13 Part 5)					15:30 Rotational Driving Response Simulation H20 Planetary Gear Mechanism for Different	tial 15:30
	Fumiki TANAKA(Hokka	15:35 A23 (155)	Research on Measuring Point Selection for Workpiece Thermal Monitoring	OS11 / Part3	15:40	Influence of Hot Shot Peening on Surface	-				(130)	uitrashort puise laser drilling of sapphire	Masaki Michihata (The	e (165	5 Study on Abrasive Grains Detection based on Deep Learning				-	15:40		-	(7) Meshing Conditions	
15:	do University)	(100)		Jun	B22 (22)	Reforming and Local Alloying					15:45	Proposal of Laser Irradiation Method for Strain-Relief of Laser Hardened Thin Small	University of Tokyo)											15:45
	_	15:50 A24	Redesigning Bottles using Implicit Surface Modeling and Frequency Analysis	kyo University of Science)	45.55	Douplanment of a Neural Durpiaking Tools for	-				(158)	Parts		15:50 E24	Calibration of grating periods based on laser diffraction method using optical frequency						Q&A (OS10 Part 2)			
16:	00	(164)		Masahiko	B23 (27)	Surface Modification of Thin-walled Materials	OS08 / Part2	16:00	Mirror Surface Finishing of Molds using		16:00		-	(107)				OS15 & OS14	/ 16:00	Scheduling Auction based Cooperation Game		16:00	16:00
	-			o Institute of Technology)	y		Yanhua Zou/Utsunomiv	C22 (193)	of Empirical PCD tool 3rd Report: Construction of Empirical Formula to Guarantee Dimensional Accuracy			Of A (OS0 Bort 5)		16:05 E25	5 Design of a small-sized surface encoder with short-period planar gratings for stage motion				Part1	G22 (76)	distribution in a Cloud-based manufacturing environment		ORA (OS4 Bart 2)	
16:	15				16:10 B24 (105)	Generation of Micro/Nano Hybrid Structures on Copper by Femtosecond Pulsed Laser Irradiation for Improving Interfacial Adhesion	a University)					Gan (059 Fait 5)		(108) measurement				EGUCHI(Hirosh ima University)	h	New Type of Recipe for Collision Avoidance			16:15
	-	16:20		-	(105)		Masahiko Jin(Nippon Institute of			OS09 / Part6	16:20	Fundamental Study on Laser Micro-welding o	-	16:20		-			Eiji Morinaga(Osak	G23 (109)	among AGVs Focusing No-Buffer Constraint			
	-		Q&A (OS3 Part 3)		16:25 B25	SERS effect of rhombic Au film structure fabricated by NPF method	Technology)			Keiji Yamada(Hirosł	(39)	oneo by cong opena Light modulat			Q&A (OS12 Part 6)				a Prefecture University)					
16:	30				(80)					ma University)	16:35	Temperature estimation of the laser-induced	-						Hironori Hibino(Tokvo	16:30 G24 (175)	Learning Priority Rule using Neural Network for Job Shop Scheduling with regard to Weighted Tardiness			16:30
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16:	45					Q&A (OS11 Part 3)					16-50	Eurodomental Study on Colcination Mathed of	-							16:45 G25	Reconfigurable Production Line Design Method to Ensure High Efficiency in Both Steady and Emergency Situations			16:45
	_										D24 (115)	Limestone by Using CW Laser of Near- infrared								(177)				
17:	DO						-	17:00												17:00 G26	Study on Modular Structured Machinery Applicable to Reconfigurable Manufacturing			17:00
											17:05 D25 (122)	Fundamental Study on Surface Texturing of Alloy Steel by Ultrashort Pulsed Laser for Control of Water Repellency								(140)	Systems			
17:	15								Q&A (OS8 Part 1 / Part 2)		(122)									17:15				17:15
											17:20 D26	Fundamental Study on Laser Forming Characteristics of Carbon Fiber Reinforced	+											
17:	30							_			(84)	Thermoplastic Sheet									Q&A (OS15/OS14 Part 1)			17:30
	-										17:35		-											
4.00	15																				1	1		47.45
17:												Q&A (OS9 Part 6)												17:45
18:	00																							18:00