

ISAAT2018 Program

October 14 (Sunday), 2018

17:00-20:00 Registration and Welcome Reception

Location: Oakham House, 63 Gould Street

Room: Thomas Lounge

October 15 (Monday), 2018

8:30-9:00 Opening Ceremony, Chairman: Fengfeng Xi

Location: Sears Atrium, 3rd floor, George Vari Engineering and Computing Center, 245 Church St.

Opening addresses Xipeng Xu, ICAT Chairman

9:00-10:45

Keynote Speech Panel

1. Eric Beauregard, Executive Vice-President, AV&R
High Precision Finishing Robotic Systems
2. Alex Vinitzky, Senior Engineering Specialist, Bombardier
Aircraft Metallic Protective Treatment
3. Evgueni Bordatchev, Senior Research Officer, NRC
Laser Polishing

10:45-11:00 Coffee Break

11:00-12:30 General Session, Chairman: Zhongde Shi

1. High-speed high-efficient grinding of CMCs with structured grinding wheels
Bahman Azarhoushang, Mohammadali Kadivar, Robert Böisinger, Sergey Shamray, Ali Zahedi, Amir Daneshi
2. Research on ultra-precision grinding technologies of large aperture and complex aspheric lens
L. Zhou, Q. Wei, X. Chen, Q. Zhang, J. Wang, Q. Xu
3. Study on magnetic abrasive finishing combined with electrolytic process
Xu Sun, Yanhua Zou
4. P-CAM software for robotic polishing
Jeff Xi, Sean Liu and Kenny Lu

12:30-14:00 Lunch and Conference: Oakham House, 63 Gould Street

14:00-15:30 Sessions

Location: Thomas Lounge <i>Abrasive machining, abrasive jet machining</i> Chairperson: <i>Po Nien Tsou</i>	Location: Margaret Laurence Room <i>Cutting technology</i> Chairperson: <i>Chuanzhen Huang</i>	Location: Oakham Lounge <i>Grinding wheel, coolant</i> Chairperson: <i>Kazuhito Ohashi</i>	Location: Layton Room <i>Machine tools and system, tool processing</i> Chairperson: <i>Bahman Azarhoushang</i>
An investigation on wear of monolayer brazed CBN wheels in high speed grinding of particulate reinforced titanium matrix composites <i>Wenfeng Ding, Xinxin Xi</i>	Analysis and prediction of tool flank wear under constant material volume condition in turning of AISI 4140 steel <i>R. Wang, S. Zhang, G. Li, J. Li</i>	Development of high efficiency CMG pellets for finishing mono-crystal sapphire <i>J. Wang, T. Maezaki, T. Onuki, H. Ojima, T. Yamamoto, J. Shimizu, L. Zhou</i>	Development of nanofiber abrasive buffing pad produced with modified melt blowing method <i>Wei Wu, Eiichi Aoyama, Toshiki Hirogaki, Kenichi Urabe, Hiroyoshi Sota</i>

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<p>Basic study on ultra-precision grinding of optical glass lens by CeO₂ chemical reaction assistance</p> <p><i>Yoshiki Konuma, Yasuhiro Kakinuma, Masahiko Fukuta, Katsutoshi Tanaka</i></p>	<p>Chip-less cutting process of the tube in radial direction with the rotary tool</p> <p><i>Eitoku Nakanishi, Yutaka Takahashi, Kohei Yamamura, Hirotoshi Murakami</i></p>	<p>Measuring of Grinding Wheel Surface Shape by Means of Laser Probe and Evaluation of Cutting Edge Density</p> <p><i>Gen Uchida, Takazo Yamada, Kohichi Miura, Hwa-Soo Lee</i></p>	<p>Deviation analysis of wall thickness measurement for tube parts with large depth to diameter ratio</p> <p><i>Qiyang Li, Xianglong Zhu, Zhigang Dong, Hongxia Song, Renke Kang</i></p>
<p>Effect of speed ratio on surface finish using circumferentially grooved wheels in cylindrical plunge grinding</p> <p><i>Scott Dewar, Andrew Warkentin, Robert Bauer</i></p>	<p>Comparison of machining performance between cutting tap and rolled tap in tapping of Inconel 718 superalloy</p> <p><i>Masahiro Mizuno, Yuma Koseki, Nobuhito Yoshihara</i></p>	<p>Measuring of thermal expansion of grinding wheel by means of laser displacement sensor</p> <p><i>Takazo Yamada, Gen Uchida, Hwa-Soo Lee, Kohichi Miura</i></p>	<p>Drilling mechanism and experimental research on ultrasonic vibration machining technology</p> <p><i>Shuo Chen, Ping Zou, Yingjian Tian, Hao Wu</i></p>
<p>A new grinding method for rail profiling</p> <p><i>Fengtao Lin, Fengfeng (Jeff) Xi, Ruitao Wang, Weihao Hao, Zhihe Li, Shuang Zhou</i></p>	<p>Development of localized compressive hydrostatic pressure-assisted cutting using sliding element</p> <p><i>Jun Shimizu, Hirotoshi Ashino, Takeyuki Yamamoto, Hirotaka Ojima, Teppei Onuki, Libo Zhou</i></p>	<p>Research on surface integrity in graphene nano-fluid MQL milling of TC21 alloy</p> <p><i>Ming Li, Tianbiao Yu, Hongyu Li, Lin Yang, Jiashun Shi, Wanshan Wang</i></p>	<p>Influence of angle between fibre and machining direction for CFRP machining using CBN electroplated end-mill</p> <p><i>Ruriko Komietani, Toshiki Hirogaki, Eiichi Aoyama, Tatsuya Furuki, Kiyofumi Inaba, Kazuna Fujiwara</i></p>
	<p>Development of ultrasonic rotary cutting method for hardened steel</p> <p><i>Shinichi Ninomiya, Satoshi Nagakura</i></p>	<p>Tribology properties of graphene-coated silica particles</p> <p><i>Yuefeng Du, Zhenyu Zhang, Xinze Wang, Shaochen Wang</i></p>	<p>Study on wheel cover safety for grinding machines: effect of compressive strength of abrasive projectile on cover damage</p> <p><i>Takuya Fukui, Akinori Yui, Takayuki Kitajima</i></p>

15:30-16:00 Coffee Break

16:00-17:30 Sessions

<p>Location: Thomas Lounge <i>Abrasive machining, abrasive jet machining</i> Chairperson: <i>Hideki Aoyama</i></p>	<p>Location: Margaret Laurence Room <i>Cutting technology</i> Chairperson: <i>Feihu Zhang</i></p>	<p>Location: Oakham Lounge <i>Grinding wheel, coolant</i> Chairperson: <i>Hang Gao</i></p>	<p>Location: Layton Room <i>Processing of non-metallic materials</i> Chairperson: <i>Akinori Yui</i></p>
<p>Study on the material removal mechanism of glass in single diamond grain grinding with ultrasonic vibration assisted</p> <p><i>Jianyun Shen, Bin Dai, Yuan Li, Xian Wu, Zhongwei Hu</i></p>	<p>Effect of shear clearance on shear section quality and microscopic state of deformation zone of non-oriented electrical steel sheet</p> <p><i>Yiwei Zhu, Qiusheng Yan, Jiabin Lu, Biao Tang</i></p>	<p>Simulation study on CBN wheel wear of ultra-high-speed grinding</p> <p><i>Ying Shi, Jian Li, Zhihui Wang, Tianqi Zhang, Zhili Sun</i></p>	<p>A study of the effect of the nano MoS₂ concentrations in MQL on grinding CFRPs</p> <p><i>Xufeng Zhao, Tianbiao Yu, Wanshan Wang</i></p>
<p>Study on the automation of grinding process of mold material</p> <p><i>Takekazu Sawa</i></p>	<p>Effects of the tool inclination and edge serrations on the brittle fracture in the micro milling of the optical glass</p> <p><i>Takenori Ono</i></p>	<p>Study on the property and microstructure of the vitrified bond Ni-coated CBN composites in strong magnetic field</p> <p><i>Zhelun Ma, Tianbiao Yu, Xue Sun, Zixuan Wang</i></p>	<p>Numerical analysis on temperature distribution for drilling unidirectional kevlar composites</p> <p><i>Wei Hao, Hang Gao, Yongjie Bao, Yiqi Wang, Xueshu Liu</i></p>

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Simulation of burr formation during single-pass honing of 4Cr13 stainless steel <i>Jiuhua Xu, Shaowu Gao, Changyong Yang</i>	Experimental study on drilling characteristics of 3D-printed titanium alloy <i>Meng Hu, Weiwei Ming, Qinglong An, Ming Chen</i>	Experimental study on profile grinding of titanium alloy with axial rotating heat pipe abrasive wheel <i>Yang Wang, Zhengcai Zhao, Yucan Fu, Ning Qian</i>	Theoretical and experimental study of single grain grinding of fused silica glass <i>Tianyi Sui, Bin Lin, Zhongchen Cao, Feifei Zhao, Yunhua Su</i>
Modeling for robot grinding process based on LS-SVM <i>Longhui Wang, Yong Wang, Yanlong Wang</i>	Investigation of cutting phenomena in screw cutting by three axis controlling helical interpolate motion <i>Shota Matsui, Kaito Aotani, Toshiki Hirogaki, Eiichi Aoyama</i>	The influence of crystalline structure of alumina abrasive grains on wear flat generation <i>Leire Godino, Iñigo Pombo, Jose Antonio Sanchez</i>	Experimental study on grinding performance of high-density Nomex honeycomb core <i>Yixin Ma, Zhigang Dong, Yidan Wang, Renke Kang</i>
In-situ fast measurement of grinding wheel wear and compensation of wheel profile error <i>F. Fan, L. Xu, Z. Zhang, X. Chao, W. Fan, L. Shi</i>	The machining properties of PCBN tools for cutting a hydrogen resistance steel <i>Yan Zhang, Zhihui Xia</i>	Fabrication and application of high quality diamond coated CMP pad conditioners <i>Hua Wang, Fanghong Sun</i>	Precision grinding of polycrystalline diamond scribing wheel for scribing and breaking of monocrystalline wafers <i>Yusuke Akiyama, Mutsumi Okada, Hirofumi Suzuki, Toshio Fukunishi, Yoshiyuki Asai, d Kazumalazawa</i>

18:00-20:00 ICAT Committee Meeting: Oakham Lounge

End of Day 1

October 16 (Tuesday), 2018

8:30-10:00 Sessions			
Location: Tecumseh Auditorium <i>Abrasive machining, abrasive jet machining</i> Chairperson: <i>Ming Chen</i>	Location: Margaret Laurence Room <i>Cutting technology</i> Chairperson: <i>Renke Kang</i>	Location: Oakham Lounge <i>Polishing and superfinishing</i> Chairperson: <i>Shaohui Yin</i>	Location: Layton Room <i>Monitoring, metrology</i> Chairperson: <i>Hirofumi Suzuki</i>
Investigate the effect of temperature on the plastic deformation behavior of 3C-SiC and diamond tool wear during nano-scratching using MD <i>Zhipeng Li, Feihu Zhang</i>	The research on high precision machining of vertical wall <i>Kenshiro Tamaki, Takeshi Akamatsu, Masahiro Anzai, Takekazu Sawa</i>	Effect of polishing load on friction and surface quality in diamond chemical mechanical polishing <i>Zhuoying Shi, Zhuji Jin, Bo Yin, Guangnan Jiang, Kangnan Fan</i>	Development of non-contact type on-machine shape measuring method for rotating tool <i>Koheiltakura, Tatsuya Furuki, Hiroyuki Kousaka</i>
Influence of UV-ray irradiation on constant-pressure grinding for SiC <i>Moe Mekata, Minoru Ota</i>	Visualization of change in temperature distribution of all over the tool rake face from the beginning of cutting until the cutting state is in a quasi-state <i>Jun Shinozuka</i>	Experimental studies on finishing of additive manufacturing titanium alloy parts with difficult-to-machine structures using abrasive flow machining <i>Can Peng, Xuanping Wang, Haibo Wei, Haiquan Wang, Hang Gao</i>	A new method of real time monitoring of cutting tool status bases on HHT <i>Zichao Lin, Biao Chen, Bin Shen, Yufei Gui</i>

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<p>An experimental study for lowering surface roughness in grinding with electroplated superabrasive wheels</p> <p><i>Zhongde Shi, Mouhab Meshreki</i></p>	<p>Ceramic cutting tool materials with the addition of graphene oxide self-assembly coated Si₃N₄ powders</p> <p><i>Wenliang Zhang, Guangchun Xiao, Jingjie Zhang, Zhaoqiang Chen, Mingdong Yi, Chonghai Xu</i></p>	<p>Optimal selection of a modular robot system for automatic polishing and deburring</p> <p><i>Xianhua Li, Lei Lv, Fengfeng (Jeff) Xi, Jasper Liu, Leigang Zhang</i></p>	<p>AE monitoring system for belt grinding and polishing processes by industrial robot</p> <p><i>Chun-Wei Liu, Po-Chun Chi, Chih-Hsuan Shih, Kao-Der Chang, Ta-Hsin Chou, Chih-Ming Tsai</i></p>
<p>Experimental study on ultra-high speed grinding of Inconel 718</p> <p><i>Bo Qiu, Zhengcai Zhao, Yucan Fu, Jiuhua Xu</i></p>	<p>Effects of tool coatings on cutting performance of pure iron material under finish turning</p> <p><i>Kong Jinxing, Huang Wen, Du Dongxing</i></p>	<p>Electrochemical mechanical polishing of 4H-SiC (0001) with different grinding stones</p> <p><i>Xu Yang, Kentaro Kawai, Kenta Arima, Kazuya Yamamura</i></p>	<p>Comparative investigation of subsurface damages induced on sapphire with different machining methods using micro Raman spectroscopy</p> <p><i>Teppei Onuki, Ke Wu, Kazuki Kamoshida, Piao Lin, Nao Sugano, Hirotaka Ojima, Jun Shimizu, Libo Zhou</i></p>
<p>Experimental study on torque and burrs during ultrasonic assisted single-pass honing of 4Cr13 stainless steel</p> <p><i>Shaowu Gao, Changyong Yang, Jiuhua Xu</i></p>	<p>Turning of cemented tungsten carbide micropins</p> <p><i>Kai Egashira, Eisuke Koya, Shodai Ueda, Keishi Yamaguchi, and Minoru Ota</i></p>	<p>Inner Polishing of small-diameter stainless steel pipe using wire grinding tool</p> <p><i>Kazuya Amano, Yasutake Haramiishi, Tsuyoshi Shimizu, Shinsaku Hagiwara</i></p>	<p>Estimation of the shape error in the Long workpiece from the normal grinding force of cylindrical traverse grinding</p> <p><i>Koichi Sakamoto, Takashi Onishi, Moriaki Sakakura, Naoki Kawaguchi, Kazuhiro Ohashi</i></p>
10:00-10:30 Coffee Break			
10:30-12:00 Sessions			
<p>Location: Tecumseh Auditorium</p> <p><i>Abrasive machining/ abrasive jet machining:</i></p> <p>Chairperson: <i>Jun Wang</i></p>	<p>Location: Margaret Laurence Room</p> <p><i>Surface integrity and characterization</i></p> <p>Chairperson: <i>Li Liu</i></p>	<p>Location: Oakham Lounge</p> <p><i>Polishing and superfinishing</i></p> <p>Chairperson: <i>Jun Shimizu</i></p>	<p>Location: Layton Room</p> <p><i>Monitoring, metrology</i></p> <p>Chairperson: <i>Binghai Lyu</i></p>
<p>Experimental study on the grinding anisotropy of nickel-based single crystal superalloy</p> <p><i>Ming Cai, Yadong Gong</i></p>	<p>Surface integrity of machined surface in end milling of CFRP</p> <p><i>Kenji Shimana, Takahiro Inatomi, Yuta Kurigeno, Ryuichi Iwamoto</i></p>	<p>Polishing of V-groove and Fresnel optics using localized vibration-assisted magnetic abrasive method</p> <p><i>Jiang Guo, Renke Kang, Zhigang Dong, Xiaoguang Guo</i></p>	<p>Grinding workpiece error evaluation based on non-contact 3D point cloud metrology</p> <p><i>Po-Nien Tsou, Po-Huang Shieh, Ming-Cheng Tsai</i></p>
<p>Effect of the abrasive grain distribution on surface roughness</p> <p><i>Nobuhito Yoshihara, Masaki Ono, Naohiro Nishikawa, Masahiro Mizuno</i></p>	<p>Simulation of microstructural texture evolution in high speed machining of Ti-6Al-4V alloy</p> <p><i>Xin Zhong, Jun Zhao</i></p>	<p>Achieving high MRR and high surface roughness convergence rates for optical glass polishing using semi-rigid DAWP tool</p> <p><i>Ange Lu, Tan Jin, Qifeng Liu, Meina Qu</i></p>	<p>In-process grinding wheel wear evaluation using digital image processing</p> <p><i>Sebastian Ludwig, Bahman Azarhoushang</i></p>

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Decision support system for principal factors of grinding wheel using data-mining methodology <i>Hiroyuki Kodama, ItaruUotani, Kazuhito Ohashi</i>	Study on the influence of grinding chatter on the workpiece's surface topography <i>Cong Sun, Shanshan Li, JinchaoDuan, ShichaoXiu</i>	Development of an on-machine polishing CAM system based on five-axis control <i>Mikio FUJIO, Takumi Sakuraba, Yoshikata Nakano</i>	Investigation of deformation principle during hybrid process of laser quenching and forming based on in-situ deformation monitor <i>Yuki Msnsbe, Hiromichi Nishida, TomonaoHirota, ToshikiHirogaki, Eiichi Aoyama, Keiji Ogawa</i>
A study on exit burr formation in grinding process - simulation and experiment <i>Gongyu Liu, Ming Chen</i>	Effect of surface strengthening on surface integrity of high strength materials <i>Dongxing Du, Wen Huang, Jinxing Kong</i>	Effect of water supply using ultrasonic atomization on MCF (magnetic compound fluid) slurry working life in MCF polishing <i>Mitsuyoshi Nomura, Naoya Makita, Tatsuya Fujii, Yongbo Wu</i>	Monitoring of tool wear by ratio of cutting force components in end milling process for titanium alloy Ti6Al4V <i>Eiji Kondo, Daisuke Tabuchi, NoriyoshiKumazawa</i>
A new methodology for cup wheel precision grinding of rotational quadric surface <i>L. Xu, D. Hu, F. Fan, K. Xu, Z. Zhang</i>	Modelling for material removal modes of monocrystalline sapphire by single-grit scratch <i>XingshiGu, Hao Wang, Kui Liu</i>	Investigation on magnetic polishing characteristics of metal additive manufactured Ti-6Al-4V <i>Takamasa Hirano, Tatsuya Furuki, Hiroyuki Kousaka</i>	
12:00-13:30 Lunch			
13:30-15:00 Sessions			
Location: Tecumseh Auditorium <i>Non-conventional machining processes</i> Chairperson: <i>Hui Huang</i>	Location: Margaret Laurence Room <i>Truing, dressing, ELID</i> Chairperson: <i>Yasuhiro Kakinuma</i>	Location: Oakham Lounge <i>Polishing and Superfinishing</i> Chairperson: <i>Bin Shen</i>	Location: Layton Room <i>Monitoring, metrology</i> Chairperson: <i>Peng Yao</i>
Study on ultrasonic vibration assisted drilling of AISI 316 2nd report effect of ultrasonic vibration on the cutting temperature <i>Kyosuke Taguchi, Nobuhito Yoshihara, Keisuke Hara, Masahiro Mizuno</i>	Dressing of diamond grinding wheels with abrasive water jet for RB-SiC surface grinding <i>Zhenzhong Zhang, Chong Wang, Peng Yao, Jun Wang, Chuanzhen Huang, Ke Zhang, Yue Liu</i>	Parameter optimization by Taguchi methods for polishing LiTaO3 substrate using force-induced rheological polishing method <i>Shihao Chen, Binghai Lv, Julong Yuan, Ping Zhao, Qi Shao, Qiankun He</i>	Statistical evaluation of a fixed diamond wire surface topography using a deep learning <i>Akihiro Sakaguchi, Tomoyuki Kawashita, Shuji Matsuo, Mitsuki Matsumoto</i>
Effect of thin electrode with grooves for high machining speed in small deep hole EDM <i>Hiroki TOYODA, Hideki TAKEZAWA, Kenta YUASA</i>	Electro contact discharge dressing of wire sawing tools <i>Berend Denkena, Thilo Grove, Jan Harmes</i>	Path and trajectory generation for robotic polishing of sheet metal parts <i>Yuezhi (Sean) Liu, Zhiyong Chen, Fengfeng (Jeff) Xi, Kenny Lu</i>	In-situ measuring method and experimental research on grinding wheel global surface roughness <i>Jianhui Zhu, Chaoyu Shi, Ning Yan , Yanjun Zhao, Wei Yang, Hua Bao</i>
Evaluation for laser command generation in directed energy deposition applying a three dimensional heat conduction simulation <i>Toshiki Kodama, Ryo Koike, Yasuhiro Kakinuma, Yohei Oda</i>	Design and validation of a kinematic numerical dressing model of conventional grinding wheels <i>GalleitebeitiaAitzol, Álvarez Jorge</i>	Research on an innovation hybrid machining process for the surface polishing of SiC wafer <i>Chia-Jen Ting, Chi-Feng Chen, Chih-Chiang Weng, Ta-Hsin Chou</i>	Surface polishing characteristics of ultrafine-grained aluminum alloy for reflective optics of infrared hyperspectral imaging <i>Shinya Morita, Yutaka Yamagata, Yutaro Kitagawa, KentaroMotohara</i>

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<p>Evaluation of ultrasonic vibration assisted grinding of glass using photoelastic method</p> <p><i>Natsuki Sasada, Satoshi Yokoyama, Yuya Igarashi, Keisuke Hara, Hiromi Isobe</i></p>	<p>Experiment research on electrolytic truing and dressing of aluminum bonded grinding wheel</p> <p><i>Fangyi You, Xuan Wang, Qiulian Dai, Huzi Cui, Jian Hong</i></p>	<p>Research on scan polishing flat surfaces with a small diameter tool</p> <p><i>He Wang, Weimin Lin</i></p>	<p>Smart monitor of tool temperature and vibration in drilling and countersinking processes with a multifunctional wireless communication tool holder system</p> <p><i>Ryo Matsuda, Masatoshi Shindou, Toshiki Hirogaki, Eiichi Aoyama</i></p>
<p>Investigation of tribological properties on ultrasonic turned surfaces</p> <p><i>Keisuke Hara, Kyosuke Taguchi, Hiromi Isobe</i></p>	<p>Impulse excitation characterization of resin bond composite abrasives with different concentration of porous in the structure</p> <p><i>Katia Cristiane Gandolpho Candioto, Alexandre Dutra Golanda</i></p>	<p>Experimental study on the superfinishing process optimization for zirconia ceramic bearing raceway</p> <p><i>Songhua Li, Weidong Wang, Yuhou Wu, Jian Sun, Tao Han</i></p>	
15:00-15:30 Coffee Break			
15:00-17:00 Sessions			
<p>Location: Tecumseh Auditorium <i>Non-conventional machining processes</i></p> <p>Chairperson: <i>Takekazu Sawa</i></p>	<p>Location: Margaret Laurence Room <i>Others</i></p> <p>Chairperson: <i>Julong Yuan</i></p>	<p>Location: Oakham Lounge <i>Polishing and Superfinishing</i></p> <p>Chairperson: <i>Changfeng Huai</i></p>	<p>Location: Layton Room <i>Micro, nano machining</i></p> <p>Chairperson: <i>Libo Zhou</i></p>
<p>Realization of current area restriction in ECM process by electrolyte suction tool with auxiliary electrode</p> <p><i>Wataru Natsu*, Guixian Liu, Saori Hizume</i></p>	<p>Evaluation of sound absorbing CFRP acoustic panel prototype formed using media blasting</p> <p><i>Hitoshi Fukagawa, Daiki Ichikawa, Satomi Kawashima</i></p>	<p>Hybrid force-stress control method for robotic polishing system based on Hertzian contact theory</p> <p><i>Chuangfeng Huai, Gangyi Shi, Fengfeng (Jeff) Xi</i></p>	<p>Fabrication of superhydrophobic columnar array glass surface by glass molding process</p> <p><i>Hongpeng Jia, Shuai Huang, Shaohui Yin, Fengjun Chen</i></p>
<p>Study on characteristic of EDM for permanent magnets with different initial magnetizing ratio</p> <p><i>Shogo Toyama, Hideki Takezawa</i></p>	<p>Investigation on the wettability of ridge-textured surface created by angled fine particle peening</p> <p><i>Yutaka Kameyama, Shunta Kawasaki, Yusuke Ito, Naoto Takahashi, Hideaki Sato, Ryokichi Shimpo</i></p>	<p>Study on concentric mutual lapping for improvement in sliding surface function of SiC ceramics</p> <p><i>Yusuke TANIMOTO, Hayato KOYAMA, Hiroyuki KODAMA, Kazuhito OHASHI</i></p>	<p>The mechanical property of K9 glass based on nano-scratch experiment</p> <p><i>Xiaoguang Guo, Yutong Shi, Zhuji JIN, Renke Kang, Shang Gao</i></p>
<p>Study on electrochemical effect in electrochemical grinding of tungsten alloy</p> <p><i>Lin Niu, Zhuji Jin, Zhongzheng Zhou, Zhigang Dong, Xianglong Zhu</i></p>	<p>Evaluation of abrasive grain distribution of the grinding belt based on information entropy</p> <p><i>Yasutake Haramiishi, Tsuyoshi Shimizu, Masataka Kunugi, Yuzairi Bin Abdul Rahim, Shinsaku Hagiwara</i></p>	<p>Study on the method of magnetorheological finishing of glass panel of the inner screen of mobile phone</p> <p><i>Bin Luo, Jisheng Pan, Jiabin Lu, Qiusheng Yan</i></p>	<p>Development of a simulation method of three-dimensional ultrafine processing by femtosecond laser</p> <p><i>Shunsuke Nabetani, Hideki Aoyama, Masahiro Ueda, Yoshinori Ogawa, Kazuo Yamazaki</i></p>
<p>Influence of auxiliary gas on silicon carbide machining by femtosecond laser</p> <p><i>Ru Zhang, Chuanzhen Huang, Jun Wang, Hongtao Zhu, Bin Zou, Hanlian Liu, Yan Liu, Yue Liu</i></p>	<p>Investigation on formability of Al-Cu composite material in micro deep drawing process with different lubrication conditions</p> <p><i>Fanghui Jia, Jingwei Zhao, Liang Luo, Haibo Xie, Zhengyi Jiang</i></p>	<p>Surface finishing of hardened steel with abrasive brushes</p> <p><i>Eckart Uhlmann, Christian Sommerfeld</i></p>	<p>Design and fabrication of ultra-small micro end-mills for the machining of bone tissue</p> <p><i>Zhiqiang Liang, Shidi Li, Peng Gao, Tianfeng Zhou, Xibin Wang, Lijing Xie, Zhibing Liu, Li Jiao</i></p>

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Ultrasonic assisted grinding of C_SiC composites <i>Zhigang Dong, Jinting Liu, Renke Kang, Feifei Zheng, Jiang Guo</i>	Analysis of the factors of the TRS reduction rate of metal matrix diamond segment by DEM simulation <i>Xiuyu Chen, Guoqin Huang, Yuanqiang Tan, Yiqing Yu, Hua Guo, Xipeng Xu</i>	Q Learning based trajectory generation for robotic grinding and polishing <i>GbengaAbiodunOdesanmi, Imran Iqbal, Bai Jie, Zhang Cong, Jianxiang Wang, Li Michael Liu</i>	Design and analysis of a high-speed micro-spindle for mechanical micromachining <i>Wei Li, Yinghui Ren, Zhixiong Zhou, Mingjia Liu</i>
17:00-18:00 Break			
18:00-22:00 Banquet			
Banquet Chairman: Fengfeng Xi Location: <i>Chelsea Hotel, 33 Gerrard Street West</i>			

End of Day 2

October 17 (Wednesday), 2018

Technical Tour: Coordinator Gabriel Campos

End of Day 3