July 25, 2014 (Fri)-1

Time	Hotel Nikko Kanazawa			
8:00	Registration desk open			
	Room A	**Room B**	**Room C**	**Room D**
			Precision devices *Chairman:* *(Prof. Keiichi Shirase)*	**CAD/CAM (1)** *Chairman:* *(Prof. Hideki Aoyama)*
9:00			**C21:** Development of a portable personal neck cooling system *Masanori Wada, Hiroshi Hosaka, Ken Sasaki, Kiyoshi Itao*	**D21:** Development of System to Predict and Minimize of Burrs in End-Milling *Sothea Kruy, Hideki Aoyama, Noriaki Sano*
9:20			**C22:** Study on asymmetrical tactile sensation of horizontal vibrating plane *Shohei Mishima*	**D22:** Ray-tracing simulation procedure for general isotropic inhomogeneous refractive-index media *Yohei Nishidate*
9:40			**C23:** Development of low power consumption vibration recording system *Xuchu Zhu, Fumito Yukawa, Hiroshi Hosaka*	**D23:** Investigation of Ball-Nose Endmilling Conditions Derived from Catalog Data Mining Based on Classified Inclination Angle of Machining Surface *Yui Sugaya, Hiroyuki Kodama, Toshiki Hirogaki, Eichi Aoyama, Keiji Ogawa*
10:00 10:20	**Coffee break**			

RoomA-C: Banquet Hall 3F, Room D: Function Room 3F (*La Grant Lumiére*)

July 25, 2014 (Fri)-2

Time	Hotel Nikko Kanazawa			
	Room A	**Room B**	**Room C**	**Room D**
	Advanced molding and forming *Chairman:* *(Prof. Makoto Niikawa)*	**Measurement engineering (1)** *Chairman:* *(Prof. Yasuhiro Takaya)*	**Mechatronics (1)** *Chairman:* *(Prof. Masaya Takasaki)*	**CAD/CAM (2)** *Chairman:* *(Prof. Masatomo Inui)*

10:20	A24: Study on reduction of deformation of consolidated structure by layered manufacturing system -Optimization of laser scanning method- *Ryoji Ogura, Tatsuaki Furumoto, Akira Hosokawa, Tomohiro Koyano, Takashi Ueda*	**B24:** Visualization and analysis of a liquid-liquid two-phase flow using surface plasmon polaritons *Hiromichi Murata, Tatsuya Oku, Ryohei Seya, Miyu Ozaki, Ryoshu Furutani*	**C24:** Application of Electro-adhesive Rubber to Paper Handling System *Yuta Shimizu, Keita Matsuzawa, Yasuhiro Kakinuma, Tojiro Aoyama, Masaki Yoshino, Jun Aoto*	**D24:** Recognition and Reconstruction of Roadside Objects Based on Mobile Mapping Data *Kenta Fukano, Shougo Oguri, Hiroshi Masuda*
10:40	**A25:** Micro cyclic structuring on metal foil surface using Micro Form Rolling *Jun Tomita, Shohei Yamao, Minoru Ota, Kai Egashira, Keishi Yamaguchi, Yoshitaka Uehara*	**B25:** Investigation on the contact detection sensitivity of thermal contact sensor for surface defect inspections *Yuki Shimizu, Yuta Ohba, Wei Gao*	**C25:** Generation of a Procedure for Reaching a Specified Destination Based on Human Movement Data for a Humanoid Robot *Hiroyuki Ogata*	**D25:** Proposal of Machining Features for CAPP System for Complex Machining *Akira Ueno, Keiichi Nakamoto*
11:00	**A26:** Internal face finishing performance of cooling channel with face protuberance within molding die *Yoshiki Ochiai, Tatuaki Furumoto, Takashi Ueda, Akira Hosokawa, Tomohiro Koyano, Daiki Kusunoki*	**B26:** Development of 3D Measurement System using Single-shot Phase-shift Digital Holography *Yu Qiyue*	**C26:** Development of Variable Stiffness Manipulator for Tactile Sensing for Mobility and Deformability Measurement *Daisuke Matsuura, Pavel Adodin, Yukio Takeda*	**D26:** Suggestion of 3D Direct Drawing Method by Microsoft Kinect *Kaoru Mitsuhashi, Ikuo Yoshida, Jin-Hua She, Yasuhiro Ohyama*
11:20	**A27:** Press Forming of CFRTP Sheet For High Cycle Production *Masaki Kimura*	**B27:** Large scale straightness evaluation using a gyro *Tatsuya Kume, Masanori Satoh, Tsuyoshi Suwada, Kazuro Furukawa, Eiki Okuyama*	**C27:** Impulse-driven Capsule for Medical Treatment - Wireless Implementation - *Takahiro Ito, Sunao Murakami, Teru Hayashi*	**D27:** Replicating Sharp Features of a Quadrilateral Mesh using the Corresponding Normal Vector *Yusuke Imai, Shogo Moriya, Hiroyuki Hiraoka, Hiroshi Kawaharada*
11:40	**A28:** Examination of processing conditions for sphere indentation finishing of MLA mold based on FEM analyses *Ryo Ishida, Yasunori Kobayashi, Haruhisa Sakamoto*	**B28:** On-machine form measurement of precision ceramics parts *So Ito, Takayuki Meguro, Daiki Matsuura, Yuki Shimizu, Wei Gao, Shigeru Adachi, Kyohei Omiya*	**C28:** Three-dimensional Slide-bending Formation of Metallic Foil by Using an Industrial Robotl *Hiroshi Harada, Yuki Niiji, Kouhei Kawabe, Yasuo Marumo, Teruo Yamaguchi*	**D28:** Development of Process Planning System for Turning-Milling Center *Khusna Dwijayanti, Hideki Aoyama*
12:00 13:20	**Lunch**			

RoomA-C: Banquet Hall 3F, Room D: Function Room 3F (*La Grant Lumiére*)

Time	Hotel Nikko Kanazawa			
	Room A	**Room B**	**Room C**	**Room D**
	Machine tools (1) *Chairman:* *(Prof. Yasuhiro Kakinuma)*	**Measurement engineering (2)** *Chairman:* *(Prof. Masato Okada)*	**Mechatronics (2)** *Chairman:* *(Prof. Hiroaki Seki)*	**CAD/CAM (3)** *Chairman:* *(Prof. Keiichi Nakamoto)*
13:20	**A29:** High speed cutting of Ti-6Al-4V -Effect of tool holder materials on tool wear- *Tetsuya Tashiro, Junsuke Fujiwara, Kohei Kuroda*	**B29:** Profile measurement of an aspherical mirror by high-speed nanoprofiler using normal vector tracing method *Yusuke Tokuta, Koji Usuki, Takuya Kojima, Kenya Okita, Kohei Okuda, Takao Kitayama, Motohiro Nakano, Yasuo Higashi, Ryota Kudo, Kazuya Yamamura, Katsuyoshi Endo*	**C29:** Vibration Control for High-speed Miniature Assembling by Adding Speed Pattern. *KIouhei Shinsen, Tohru Sasaki, Yusuke Ikemoto, Mitsuru Jindai*	**D29:** Data Conversion From Dexel Model to B-reps Solid Model. *Masatomo Inui*
13:40	**A30:** Investigation of Belag Formation Mechanisms on the Edge of Cutting Tools after Machining of Low-alloy and Medium-carbon Steel *Kana Morishita, Kenichi Inoue, Shigekazu Morito, Takuya Ohba*	**B30:** Stereo-camera system with digital image correlation method for accurate measurement of position and orientation of a positioning stage *Yusuke Horikawa, Hisao Kikuta, Tomoaki Noda, Akio Mizutani*	**C30:** Simulation of Remote-Controlled 6DOF Assembly using a 1DOF Haptic Device *Shinji Shinogi, Ryoya Kamata, Ryosuke Tamura, Satoshi Niitsu, Ryo Shimano, Shinji Shinogi, Hiroshi Kawaharada, Hiroyuki Hiraoka*	**D30:** Segmentation, Dimension-Driven Deformation, and Quality Improvement of Tetrahedral Mesh Models for Finite Element Analysis *Hiroki Maehama, Hiroaki Date, Satoshi Kanai*
14:00	**A31:** Effect of the Core-Rim Structure of Ti(C,N) Based Cermets on the Thermal Conductivity and Cutting Performance *Takato Yamanishi, Masato Michiuchi, Keiich Tsuda*	**B31:** Evaluation of a cup-type Daimond Grinding Wheel Surface using Image Processing Akihiro Sakaguchi, Tomoyuki *Kawashita, Shuji Matsuo*	**C31:** Development of a 1DOF Haptic Device for Remote-Controlled 6DOF Assembly - Feedback of Force and Control of Direction- *Ryo Shimano, Ryoya Kamata, Ryosuke Tamura, Satoshi Niitsu, Shinji Shinogi, Hiroshi Kawaharada, Hiroyuki Hiraoka*	**D31:** Registration of Point Clouds of Large Scale Environments using Point Projection Images *Hiroaki Date, Yusuke Matsuyama, Satoshi Kanai*
14:20	**A32:** Analysis of positional deviation caused by position-dependent disturbances in ball screw drive *Daisuke Kono, Atsushi Matsubara, Takeki Shirai, Kaoru Hoshide, Tetsuya Miura, Tsutomu Togashi*	**B32:** Measurement of Volumetric Accuracy of Three-axis Machine Tools using Open-loop Laser Tracker *Keishi Nagae*	**C32:** Remote-Controlled 6DOF Assembly using a 1DOF Haptic Device with Virtual Coordinate System R*yosuke Tamura, Ryoya Kamata, Satoshi Niitsu, Shinji Sinogi, Ryo Shimano, Hiroshi Kawaharada, Hiroyuki Hiraoka*	**D32:** Point-Based Collision Detection for Planning Maintenance and Reorganization Tasks for Manufacturing Plants *Takeru Niwa, Minako Hiraoka, Hiroshi Masuda*

14:20	**A33:** Development of Multi-Axis Micro Sawing Machine for Free-Form Curves Cutting Using Flexible Circular Saw *Yohei Yamada, Hiroyuki Sasahara*	**B33:** An R-test analysis software for error calibration of five-axis machine tools *Soichi Ibaraki, Yu Nagai, Hisashi Otsubo, Yasutaka Sakai, Shigeki Morimoto*	**C33:** Development of remote-controlled 6DOF Assembly using a 1DOF haptic device - Judgment of the constraint state using a 6-axis force sensor- *Satoshi Niitsu, Ryoya Kamata, Ryosuke Tamura, Ryo Shimano, Shinji Shinogi, Hiroshi Kawaharada, Hiroyuki Hiraoka*	**D33:** Segment Extraction from Point Cloud Using a Panoramic Layered Range Image *Masafumi Nakagawa, Kounosuke Kataoka*
15:00 15:20	**Coffee break**			

RoomA-C: Banquet Hall 3F, Room D: Function Room 3F (*La Grant Lumiére*)

July 25, 2014 (Fri)-4

Time	**Hotel Nikko Kanazawa**			
	Room A	**Room B**	**Room C**	**Room D**
	Machine tools (2) *Chairman:* *(Prof. Daisuke Kono)*	**Measurement engineering (3)** *Chairman:* *(Prof. Soichi Ibaraki)*	**Mechatronics (3)** *Chairman:* *(Prof. Hiroyuki Hiraoka)*	**Medical devices** *Chairman:* *(Prof. Jiro Sakamoto)*
15:20	**A34:** Performance of High-Speed Precision Air-Bearing Spindle with Active Aerodynamic Bearing *Hiroshi Mizumoto, Yoichi Tazoe, Tomohiro Hirose, Katsuhiko Atoji*	**B34:** Self calibration of 2D parallel mechanism with three degree of freedom *Satoshi Yokouchi, Hiroshi Takazawa, Takahiro Tanaka, Miyu Ozaki, Ryoshu Furutani*	**C34:** Vibration Suppression using Filtered Velocity Reference for Flexible Structure *Hiroshi Hamamatsu, Yasunobu Hitaka, Seiji Furuno, Takayuki Matsuo*	**D34:** An investigation of cell adhesion and growth on micro/nano-scale structured surface *Iwori Takeda, Masato Kawanabe, Ryo Inoue, Arata Kaneko*
15:40	**A35:** Study on Cutting Mechanism and Cutting Performance of Inclined Surface with Radius End Mill *Hiroyasu Iwabe, Kyouhei Kikuchi, Masanori Futakawa, Yusaku Kazama*	**B35:** Development of three-dimensional measuring system for screen-printing process *Shinya Yoshida, Yusuke Ogiso, Akihiro Mizutani*	**C35:** Improve contouring accuracy by integral sliding mode controllers designed by robust digital control *Xue-Cheng Xi, Wansheng Zhao, You Wang*	**D35:** A Study on Orthodontics Simulation Method Based on Periodontal Ligament Stress *Jiro Sakamoto, Shinya Kokubo*

16:00	**A36:** Sensorless Wear Monitoring of Tapping Tool Using Disturbance Observer *Yutaro Yoshida, Ryo Koike, Yasuhiro Kakinuma, Tojiro Aoyama*	**B36:** Development of orthros, free curved plate thickness measurement system -In case of textured surface- *Yurie Okugawa, Naoki Asakawa, Masato Okada*	**C36:** Soft-Landing Control of a Micro Magnetized Component on a Ferromagnetic Plate *Takeshi Mizuno, Takahiro Adachi, Yuji Ishino, Masaya Takasaki*	**D36:** Design of Flexible Micro Manipulator for Neurosurgery *Katsuyuki Tanaka, Takeshi Yoneyama, Tetsuyou Watanabe, Hiroyuki Kagawa, Yoshinori Fujihira, Takuya Hanyu, Yusuke Kanada, Yutaka Hayashi, Mitsutoshi Nakada*
16:20	**A37:** Micro-tool Contact Detection for High-Precision Machine Tools by Disturbance Observer *Yoshitaka Murakami, Ryo Koike, Yasuhiro Kakinuma*	**B37:** The temperature measurement of human enamel surface during CO2 laser beam irradiation The comparison of removal characteristic in laser wavelength *Shingo Henmi, Tatsuaki Furumoto, Akira Hosokawa, Tomohiro Koyano, Takashi Ueda*	**C37:** A Method for Estimating Parameters of Nonlinear Mechanical System by Using Biased Modulation Signal *Hiroshi Harada, Shunsuke Kamura, Hiroshi Kashiwagi, Naoto Sonoda, Yukio Toyozawa*	**D37:** Performance evaluation of metal-on-metal artificial hip joint ground with spherical center type ELID grinding *Masayoshi Mizutani*
16:40 17:00	**A38:** Minimization of Thermal Deformation of Machine Tool *Kenichi Nakanishi, Shinobu Sakai*	**B38:** Dezentralized intelligent drives boost productivity and accuracy *Uwe Weinmann, Tomoyuki Ei, Hirofumi Yoshida*	**C38:** Detection Of Human Position By Thermopile Infrared Sensors *Xipeng Zhang, Hiroaki Seki, Yoshitsugu Kamiya, Masatoshi Hikizu*	**D38:** Medical Implant Manufacture using the Hybrid Metal Laser Sintering with Machining Process *Simon Chappell, Makoto Ichimura, Yukinori Urushisaki, Koichi Amaya, Muneki Honnami, Manabu Mochizuki, Ung-il Chung*

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