Wed, Nov 20	
Main conference room	
9:30-9:50	Opening ceremony
9:50 -1040	Keynote 1: Efforts for high-efficiency cutting of difficult-to-machine materials Akira Hosokawa (Komatsu university, JAPAN)
10:40 -11:30	Special session: "NC Machining AI Diagnosis Based on Data Analytics" Tomoya Fujita (Mitsubishi electric Co.) "All-In-One SMART FACTORY(r) -Transformation to an automated system for your standard machine- "Takaaki Hayashi (Kitamura machinary Co.,ltd)
11:30- 13:00	Lunch

Room A			
	OS7-1 Production Systems		
13:00	13	Tomoki Hidai, Naoki Asakawa, Yuko Shimomura, Hiroki Wada and Keigo Takasugi	Development of a Tactile Globe Maker for the Visually Impaired
13:20	16	Manato Miyata, Yuki Shinto, Masaaki Imahashi, Masatoshi Itoh and Keiichi Nakamoto	Study on Augmented Reality-Based System to Support Workpiece Fixturing on a Machining Center
13:40	19	Keisuke Ishizuka, Keigo Takasugi and Naoki Asakawa	Development of a Tailstock-Center with Magnetic Coupling for Chatter Vibration Suppression
14:00	24	Hideto Sairenchi, Hikaru Yokoyama and Keiichi Nakamoto	Inference of Cognitive Load When Understanding Mechanical Drawings by Electroencephalography for Interviews Toward Skill Acquisition
14:20 -- 14:40	Break		
	OS7-2 Production Systems		
14:40	25	Kazuki Chida, Keiichi Nakamoto and Eisuke Sogabe	Tool Path Generation by Modifying a CAD Model Based on Dimensional Tolerances
15:00	29	Yuta Mukaiyama, Keigo Takasugi, Naoki Asakawa and Tomoya Takahashi	Automatic generation of painting path for industrial robot
15:20	34	Teerayut Cordkaew, Jun'Ichi Kaneko and Takeyuki Abe	Comparison of WAAM Combined with Copper and Aluminum Alloy FSB Tools on the Microstructure, Microhardness, and Pitting Corrosion of Austenitic Stainless Steel 316L
15:40 -- 16:00	Break		
	OS7-3 Production Systems		
16:00	38	Shota Adachi, Hideharu Kato and Shigehiko Sakamoto	Study on cutting mechanism of hybrid machining combining rotary tool and hale cutting

16:20	39	Ryohkoh Kamiya, Jiang Zhu and Tomohisa Tanaka	Burnishing processing of curved thin plates using a newly developed burnishing system
16:40	1	Ming-Shyan Huang and Jia-Chin Chen	Leveraging Transfer Learning for Injection Molded Part Quality Prediction

Wed, Nov 20			
Room B			
	OS2 Rootics and AI		
13:00	21	Tran Buu Thach Nguyen and Kyoung Kwan Ahn	Kinematic Analysis and Motion Planning of 8-DOF Cable-Driven Flexible Robot
13:20	32	Tianhao Cui and Soichi Ibaraki	Investigating the Posture Dependency on Positioning Error of a Six-Axis Industrial Robot
13:40	48	Shunsuke Tokunaga and Akio Yamamoto	Study on Displaying Soft Tactile Sensations Using Pressure Distribution Control on The Palm
14:00			
14:20 -- 14:40	Break		
	OS6-1 Precision Measuring Technology		
14:40	7	Fang-Jung Shiou, Ming-Jun Xiao and Yuan-Tse Chang	Development of a New Triangulation Laser Probe with Multiple Sensors
15:00	12	Jung-Ho Park, Sang-Kyu Choi, Chang-Soo Woo, Young-Bog Ham, Hong-Uk Kim, Hui-Sun Yang, Hyun-Suk Nam, Ji-Su Kim and Kwan-Geun Lee	Improved Reliability in High-temperature Measurement of Weldable Strain Gauge
15:20	35	Daiju Hoya, Naoki Asakawa, Keigo Takasugi and Borja de la Maza	Development of CAT system for 3D-CMM (Simulation for overlap detection)
15:40 -- 16:00	Break		
	OS6-2 Precision Measuring Technology		
16:00	46	Daichi Inukai, So Ito, Kimihisa Matsumoto, Kenta Matsumoto and Kazuhide Kamiya	Investigation of the effect of high-speed measurement on microprobing systems
16:20	49	Ryo Nihashi, Naoki Asakawa and Keigo Takasugi	Improving Positioning Accuracy of Industrial Robots
16:40	57	Junichi Kouguchi, Shingo Tajima and Hayato Yoshioka	Milling force estimation by combining servo information of feed axis and vibration behavior of tool spindle

Wed, Nov 20			
Room C			
	OS3-1 Mechatronics Sensing and Control		
13:00	40	Kenta Tabata, Jun Ito, Togo Yanai, Renato Miyagusuku and Koichi Ozaki	Manta Ray-Inspired Underwater Robot for Aquarium Experiments
13:20	22	Liang-Xuan Chen, Kuo-Ming Chang and Yung-Tien Liu	Signal Acquisition Device for Large Voltage Waveform Using Low-cost Raspberry Pi Pico W
13:40	20	Thanh Ha Nguyen, Van Du Phan, Manh-Hung Nguyen and Kyoung Kwan Ahn	Performance Analysis of a Novel Independent Metering Valve System Using a Neural Network Fractional Order PID Controller Versus Conventional Optimal Tuning Methods
14:00			
14:20 -- 14:40	Break		
	OS3-2 Mechatronics Sensing and Control		
14:40	6	Van Du Phan, Thanh Ha Nguyen, Thai Son Dang, Quoc Cuong Phan, Van Chuong Le and Kyoung Kwan Ahn	Trajectory Tracking Control for a Variable Stiffness Robot 1-DOF including Pneumatic Actuator Dynamics
15:00	56	Duc Thanh Phan, Kyoung Kwan Ahn and Manh Hung Nguyen	High-Performance Voltage Regulation of DC-DC Converters Subject to Internal Uncertainties and Unknown Load Conditions.
15:20	43	Lorenzo Baglieri, Daisuke Matsuura, Tsune Kobayashi and Giuseppe Quaglia	Simulation of a Hand-Free HMI wheelchair
15:40 -- 16:00	Break		
	OS3-3 Mechatronics Sensing and Control		
16:00	41	Simone Duretto, Giovanni Colucci and Giuseppe Quaglia	Design and Preliminary Testing of a Tactile Sensing System for Robotic Manipulation
16:20	50	Adolfo Senatore	Shifting control in two-speed dry clutch based gearbox for electric vehicles
16:40	54	Akira Okuno and Akio Yamamoto	Target Direction Detection in Long-Range Proximity Sensing using Capacitive Sensors