Thu, Nov 21	
Main conference room	
9:50 -1040	Keynote 2: AI-Empowered Mechatronics? Okyay Kaynak, (Bogazici University and Turkish Academy of Sciences, TURKEY)
10:40 -11:30	Keynote 3: Motivation for Machine Motion Jun'ichi Kaneko (Saitama university, JAPAN)
11:30- 13:00	Lunch

Room A			
	OS7-4 Production Systems		
13:00	42	Gustavo Quadra Vieira dos Santos, Jun'Ichi Kaneko and Takeyuki Abe	Study on the Work-Hardening of Turned Wire-arc Direct Energy Deposition Inconel 718
13:20	45	Ping-Hsien Chou, Keiji Yamada, Shota Wada, Eisuke Sentoku, Ryotaro Tanaka and Katsuhiko Sekiya	Improving Path Prediction Accuracy through Transfer Learning in Multi-Stage Laser Forming
13:40	53	Riku Fukazawa, Tadahiko Shinshi, Naohiro Sugita, Keisuke Mutoh and Yoshihiro Sato	Noise of Cylindrical Roller Bearings with Low Preload Assembly
14:00	55	Shunya Taguchi, Koji Teramoto and Naruki Shoji	Research on estimation of clamping force decrease due to workpiece rigidity reduction in machining
14:20			
14:40 -- 15:00	Break		
	OS11 Human Resource Development and Education on Mechatronics Technology		
14:40	4	Nobuyuki Iwatsuki, Yutaka Tanaka, Hidetsugu Terada and Yoshihito Kagawa	24 Years of Mechatonics System Design Competition among Laboratories in 4 Univerities
15:00	11	Mika Letonsaari	Enhancing Mechatronics Pedagogy: Integrating Gamified Storytelling Techniques in Robot Programming Instruction
15:20	47	Koki Izumi, Naoki Asakawa, Yuko Shimomura, Hiroki Wada and Keigo Takasugi	Development of Voice Guidance System in Vending Machine for the Visually Impaired People
15:40	33	Katsushi Furutani	Practice Course on “Electronic Circuit Assembly” as Freshman Seminar

16:00	36	Toshiyasu Kinari, Akichika Nakashima, Yutaro Yoshimura and Lina Wakako	Mechanism to Generate Contraction Force on Shape-Memory-Alloy Knitted Actuator

Thu, Nov 21			
Room B			
	OS8 Renewable Energy and Smart Grid		
13:00	10	Quang-Tan Nguyen and Kyoung Kwan Ahn	Tribo-Hygro-Electric Generator for Mechanical Energy Harvesting and Multiple Sensing
13:20	23	Md Fajla Rabbi and Kyoung Kwan Ahn	Self-Powered Acid Rain Sensor Based on Triboelectric Nanogenerator Made of Electrospun TiO2-PVDF Composite film
13:40	27	Young-Bog Ham, Jung-Ho Park and Hong-Uk Kim	Cryogenic plunger pump as a performance test equipment for lip seal
14:00	28	Tri Cuong Do, Kyung Sin Kwak, Jeehwan Ahn and Kyoung Kwan Ahn	Energy Management Strategy for Dual PEMFC and Battery Powered Tramway
14:20	58	Van Linh Tran, Kyoung Kwan Ahn and Hoai An Trinh	An enhanced soft actor-critic-based energy management strategy for fuel cell hybrid electric vehicles using the Mixture Density Network
14:40 -- 15:00	Break		
	OS1 Advanced Mechatronics Devices		
15:00	14	Yuma Nishida and Hiroaki Seki	Center of gravity detection of crane load using lifting force and depth image
15:20	17	Su Jianheng, Chiaki Tanuma and Yutaka Tanaka	Additive Printing on Convex and Concave Surfaces with Slant Direct Drive Parallel Mechanism
15:40	18	Chung-Wen Hung, Chia-Jui Yang, Chun-Chieh Wang and Zheng-Jie Liao	Mechatronics Gripper with Torque Control Function
16:00	51	Takumi Nozaki, Rensyo Takeda, Yoshitaka Morimoto, Akio Hayashi and Hidetaka Yamaoka	Adaptive Control of Parallel Link Type Machine Tool by Observing Machining Load
16:20	52	Mayuka Kojima and Akio Yamamoto	Application of pseudo-haptics using normal pressure and skin stretch to the palm

Thu, Nov 21			
Room C			
	OS4 Smart Actuators and Materials		
13:00	5	Kazuhiro Yoshihara, Kazuhiro Yoshida and Joon-wan Kim	Development of a soft microfinger having rigidity anisotropy
13:20	31	Kota Asamizuya, Hiroki Wada, Naoki Asakawa, Yuko Shimomura and Keigo Takasugi	Development of Objects Recognition System for Children with Low Vision Using VR Technology (Haptic Device for Object Recognition)
	OS5 MEMS/NEMS and Micro/Nano-Manufacturing		
14:00	26	Kuan-Lun Su, Tsung-Hui Tsai, Chia-Che Chang and Chih-Cheng Lu	Fabrication and Characterization of a Tungsten Disulfide Diode Probe as a Thermometer
14:20	30	Asuka Aoyagi, Yuta Tobe and Hideo Takino	Investigation of Cutting Conditions for Precision Machining of Rubber Surfaces by Milling with Small End Mill
14:40 -- 15:00	Break		
	OS9 Bioengineering and Mechatronics Applications in Life Sciences		
15:00	8	Toan Nguyen Tan, Phuong Tran Nguyen Duy Phuong, Tony Venditti, Thanh Truong Quoc and Dung Ngo Anh	Design of a safety simulator for a hydraulic press brake
15:20	9	Son Ngo Hoang, Tony Venditti, Phuong Tran Nguyen Duy, Dung Ngo Anh and Thanh Truong Quoc	Design of a Finger Rehabilitation Exoskeleton Robot for Post-Stroke Patients HR52024
15:40	15	Trung Vu, Phuong Tran, Venditti Tony, Thanh0 Truong and Dung Ngo	Design of a 7 Dofs Robot for Upper Limb Rehabilitation ULCPM724
16:00	37	Zeqiang He and Tadahiko Shinshi	A Single-drive Bearingless Motor for Percutaneous Axial Flow Pump

16:20	44	Rinka Matsui, Tadahiko Shinshi, Toshio Takayama, Tasuku Fujii, Yosuke Yoneyama and Takanori Takebe	An Intestinal Propulsion Soft Robot for Enteral Ventilation