9:00-10:00	Lecture Room A Plenary Session2: Dr. Shuuji Kajita "Team AIST-NEDO in DARPA Robotico Challenge Finals: Development, Lessons learned, and the Next"									
	Break Lecture Room F Lecture Room D									
	SS3: Intelligent Sensor Applications				TTő: Control Theory 2			TT6: Actuation and Driving		
10.10-12.10			Prof. Hiroshi Igarashi Prof. Sota Shimizu			Prof. Naoki Motoi Prof. Makoto Iwasaki			Pro. Toshimasa Miyazaki Prof. Yuki Yokokura	
		Title	First Autor		Title	First Autor		Title	First Autor	
	SS3-1	Design Strategy of MIMO System Based on Bidirectional Drivability Matrix	Yusuke Kawai (Nagaoka University of Technology), Yuki Yolokura (Nagaoka University of Technology), Kiyoshi Ohishi (Nagaoka University of Technology), Toshimasa Miyazaki (Nagaoka University of Technology)	TT5-1	Environment Reaction Torque Control Considering Current Control for Robot Joints	Junichi Itoh (Nagaoka University of Technology), Kiyoshi Ohishi (Nagaoka University of Technology), Yuki Yokokura (Nagaoka University of Technology)	TT6-1	Design and Analysis of a High- Torque Magnetic Geared Motor	Hiromasa Kitamura (Yokohama National University), Yasutaka Fujimoto (Yokohama National University)	
	SS3-2	Line Crossing Assistance Based on Situation Modulated Potentials Using Stereo Camera Detection	Baptiste Rouzier (Keio University), Toshiyuki Murakami (Keio University)	TT5-2	Vibration Suppression Control System Based on State Feedback Using Approximation Model of Two- Inertia System for Three-Inertia System	Akinori Yabuki (Nagaska University of Technology), Kiyoshi Ohishi (Nagaoka University of Technology), Toshimasa Miyazaki (Nagaoka University of Technology), Yuki Yokokura (Nagaoka University of Technology)	TT6-2	Harmonic Current Control for Interior Permanent Magnet Synchronous Machines Using Complex Vector Control	Yudai Okajima (Shibaura Institute of Technology), Kan Akatsu (Shibaura Institute of Technology)	
	SS3-3	Collision Avoidance Assistance for Power Assist Wheelchair by Fisheye Vision	Takatoshi Oikawa (Chitose Institute of Science and Technology), Naoki Oda (Chitose Institute of Science and Technology)	TT5-3	Load-side Acceleration Control Based on Partial State Feedback Using Load-side Encoder for Two- inertia System	Yasunori Murase (Nagaoka University of Technology), Yusuke Kawai (Nagaoka University of Technology), Kiyoshi Ohishi (Nagaoka University of Technology), Yoshimasa Miyazaki (Nagaoka University of Technology) (Nagaoka University of Technology)	TT6-3	Design Considerations for a Novel Wireless Resonant Actuator	John Ebot Besong (Yokohama National University), Yasutaka Fujimoto (Yokohama National University)	
	SS3-4	Pupil Size Sensing to Estimate Individuality of Students on E- learning	Seina Amagi (Tokyo Denki University), Satoshi Suzuki (Tokyo Denki University)	TT5-4	Self Resonance Cancellation for Joint Torque Control Using Torque Sensor	Akiyuki Hasegawa (the University of Tokyo), Hiroshi Fujimoto (the University of Tokyo), Taro Takahashi (the Toyota Motor Corporation)	TT6-4	Temperature Control Using Multiple Heat Sources Considering Thermal Interference	Yuji Kimura (Keio University), Yukiko Osawa (Keio University), Selichiro Katsura (Keio University)	
	SS3-5	Back Pain Prevention for Professional Caregivers through Inverse Dynamics Analysis – Comparison of Sit-up Support Motion among Several Caregivers-	Yuichi Kobayashi (Kaio University), Mika Tamegai (Keio University), Kouhei Olmiatri (Keio University), Sota Shimizu (Keio University)	TT5-5	Validation of Position Control Characteristics for Variable Mechanical Stiffness of Tendon Arms with Nonlinear Springs	Tatsuya Kageyama (Mie University), Satashi Komada (Mie University), Daisuke Yashiro (Mie University), Kazuhiro Yubai (Mie University)	TT6-5	Design and Analysis of Switched Reluctance Spiral Motor	Ryo Kakizaki (Yokohama National University), Yasutaka Fujimoto (Yokohama National University)	
	SS3-6	Skill Evaluation for Portable Input Interface with Subliminal Assist	Hiroshi Igarashi (Tokyo Denki University)	TT5-6	Time Scaling Changed by Force Information for High Speed Reproduced Motion of Two DoF Haptic Robot	Takuya Matsunaga (Keio University). Koyo Yu (Keio University). Kouhei Ohnishi (Keio University)	TT6-6	A Novel Technique to Reduce Capacitor Currents in DC bus of PWM Double Inverters with Current Sensors in Series with Low-Side Switches	Tatsuya Mori (Mitsubishi Electric Corp), Akira Furukawa (Mitsubishi Electric Corp), Kichiro Yamamoto (Kagoshima University)	
	Lecture Room E				Bresk & Demonstration (Lecture Room 207) Lecture Room F			Lecture Room 201/203		
	181: Emerging Technologies in Motion Control				TT7: Vision-based Control			V: Video	and Interactive Session	
			Prof. Kazuhiro Yubai Prof. Kazuaki Ito			Prof. Yosuke Asano Prof. Naoki Oda				
		Title	First Autor			First Autor				
1300-1560	IS1-1	Advanced Human-Robot Collaboration Systems for Recreating Artwork	Chowarit Mitsantisuk (Kasetsart University), Kiyoshi Ohishi (Nagaoka University of Technology)	TT7-1	Robust visual tracking control during target occlusion Using 3D localization estimate	Shyun Nakamura (Seikei University), Masaaki Shibata (Seikei University)				
	IS1-2	Design of Balancing Platform with Reaction Force sensing Series Elastic Actuators	Hyunwook Lee (DGIST), Suhui Kwak (DGIST), Sehoon Oh (DGIST)	TT7-2	Image Based Visual Servo Application on Video Tracking with Monocular Camera Based on Phase Correlation Method	Yoshi Ri (The University of Tokyo), Hiroshi Fujimoto (The University of Tokyo)				
	IS1-3	Distributed and Parameter-Varying Friction Compensation for Ball- Screw Feed Drive Systems	Thomas Beauduin (The University of Tokyo), Hiroshi Fujimoto (The University of Tokyo)	TT7-3	Improvement of follow-up accuracy using Kalman filter by hand eye robot	Daigo Kobayashi (Seikei University), Masaaki Shibata (Seikei University), Yuuki Ueyama (Seikei University)				
	IS1-4	FRIT of Linear Time Invariant Systems in 200F Control Architecture: Kautz Expansion Approach	Hnin Si (Kanazawa University), Osamu Kaneko (The University of Electro-Communications)	TT7-4	Visual Tracking and Approaching for Zero Impact Contact	Hayato Maki (Keio University), Seiichiro Katsura (Keio University)				
	IS1-5	Examples of actuator uncertainties in environmental systems of mechatronic systems (SoMS)	Michael Ruderman (University of Agder), Hiroshi Fujimoto (The University of Tokyo), Shota Yamada (The University of Tokyo), Valentin Ivanov (Technical University Imenau)	TT7-5	Construction of real time system for image processing using SCHED_FIFO	Junki Kuriyama (Seikei University), Masaaki Shibata (Seikei University)				
				TT7-6	Comparison of ICP and PSO in 3D Map Matching	Jiayi Wang (Yokohama National University), Yasutaka Fujimoto (Yokohama National University)				
	182- New Antiuetion Technologies for Motion Sustame				Break TT8: Force Control and Bilateral Control			TT9: Mobile Rabot		
1530-1730	1522 New Actuation Leonnologies for Motion Systems Prof. Yasutaka Fujimoto				Prof. Kenji Natori			Prof. Toshiyuki Murakami		
		T:41-	Prof. Tomoyuki Shimono		Tala	Prof. Seiichiro Katsura		T21-	Prof. Akira Shimada	
	IS2-1	Highly Backdrivable Actuators for Robotic Applications	гизь лико Yasutaka Fujmoto (Yokohama National University), Dajji Kobuse (Yokohama National University)	TT8-1	Sensorless Force Control System Using Friction-Free First Order Disturbance Observer	Pres Autor Hiroshi Nakamur (Nagaoka University of Technologi). Kiyoshi Ohishi (Nagaoka University of Technologi), Yuki Yokotura (Nagaoka University of Technologi), Joshimasa Miyazaki (Nagaoka University of Technologi), Akifumi Tsukamoto (Hirata Cerporation)	TT9-1	Study on Power Assist Control of Push Cart Robot with Wheel-Side Encoder	First nuko Wataru Akada (Tokyo University), Hiroshi Fujimoto (Tokyo University)	
	IS2-2	Micro Ultrasonic Motor Using One Cubic Millimeter Stator	Tomoaki Mashimo (Toyohashi University of Technology)	TT8-2	Analysis and Enhancement of Bilateral Control for Linear Actuator in Current Saturation Condition	Pattawan Boonwong (Nagaoka University of Technology), Yuki Yokokura (Nagaoka University of Technology), Kiyoshi Ohishi (Nagaoka University of Technology), Yukule Kawai (Nagaoka University of Technology)	TT9-2	Slip Ratio-Based Control Method for Riding over Obstacles for Lunar Rovers	Kosske Izumi (The University of Tokyo), Hirothi Fujimoto (The University of Tokyo), Shmirchiro Sakai (The University of Tokyo)	
	IS2-3	Robust Stability Analysis of Load- side Inertia Vanation in Torsion Torque Control with a Resonance Ratio Controller	Yuki Yokokura (Nagaoka University of Technology), Kiyoshi Ohishi (Nagaoka University of Technology)	TT8-3	Decoupling Control Using Gain Scaling Based on Scaling Bilateral Control with Different Inertia	Daisuke Tomicuka (Keio University), Takuya Matsumaga (Keio University), Koyo Yu (Keio University), Kouhei Ohniahi (Keio University)	TT9-3	Movement Control Based on Model Predictive Control with Kalman Filter including Disturbance Estimation	Takashi Ohhira (Shibaura Institute of Technology), Akira Shimada (Shibaura Institute of Technology)	
	IS2-4	Surface Electrostatic Actuators for Computer-Human Interactions on Tabletops	Akio Yamamoto (University of Tokyo)	TT8-4	Bilateral Control for Mobile Robot with Haptic Sense by Twin Lever Handle	So Tanaka (Yokohama National University,Kanagawa Academy of Science and Technology), Tomoyuki Shimono (Yokohama National University,Kanagawa Academy of Science and Technology), Takahu Micaguchi (Kanagawa Academy of Science and Technology)	TT9-4	Design and Analysis of a Compact and High-Thrust Force Spiral Motor for Active Knee Joint	Yutaro Hagino (Yokohama National University). Yasutaka Fujimoto (Yokohama National University)	
	IS2-5	Large Circular Linear Motor for Lower Limb Rehabilitation Robot	Tomoyeki Shimono (Yokohama National University), Hiroshi Asai (Yokohama National University), Takahiro Fujahiro (Yokohama National University), Takahiro Micguchi (Kanagawa Academy of Science and Technology), Takuya Matsunaga (Keio University), Kouhei Ohnishi (Keio University)	TT8-5	Balance Optimization Torque Distribution Control Method for considering Transmission Loss in Birarticular Actuators Mechanism	Ngo Minh Tan (Nagaoka University of Technology), Toshimasa Miyazaki (Nagaoka University of Technology), Kiyoshi Ohishi (Nagaoka University of Technology)	TT9-5	Integration of distributed maps by multiple mobile robots based on received signal strength	Naoki Hida (Shibaura Institute of Technology), Yukhiro Komiya (Shibaura Institute of Technology), Sun Zeyuan (Shibaura Institute of Technology), Masayuki Nakatani (Shibaura Institute of Technology), Yudaku Uchimura (Shibaura Institute of Technology)	
				TT8-6	Motion Reproduction Using Linear Motor for Moving Object	Hinoshi Akai (Me University), Daimuke Yanhiro (Me University), Kazuhiro Yubai (Me University), Satoshi Komada (Me University)	тт9-6	An Experimental Study on Optimal Attitude Control System for Multi-legged Robot with Redundant Joint	Kaho Kuroiwa (National Institute of Technology, Gunma College), Nooya Yoshinaga (National Institute of Technology, Gunma College), Yoch Singen nature (National Institute of Technology, Gunma College), Summa College)	
18:00					E The buses for	the banquet will leave at 18:00.				
18:30-20:30		Nagaoka Grand Hotel, 4th filoor, Canvention Hall "Austhi" Benguet								