						March 7th				
9:00-9:15						Room 1 (50 Opening	•			
						Break				
		Room 1 (50	1)			Room 5 (401)			Room 2 (502)	
9:30-11:30	TT1: Force control			TT2: Actuator and motor drive				TT3: High precision control		
	Motoki Sato Toyo Denki Seizo K.K.			Yuki Yokokura Nagaoka University of Technology				Takenori Atsumi		Chiba Institute of Technology
		Naoki Oda	Chitose Institute of Science and		Hidetoshi Ikeda		Mitsubishi Electric Corporation		Kenta Seki	Nagoya Institute of Technology
		Title Technology First Autor		(Yasutaka Fujimoto) Title			First Autor		Title	First Autor
	TT1-1	Torque Control Using Resonance Ratio Control for Tendon-Driven Mechanism Including USM and Linear Spring	Takeru Aoyama (Mie University)		TT2-1	Inherent Back–EMF Measurement of a Novel Radial–Gap Helical ROTLIN Machine	Christophe CYUSA (Yokohama National University)	ттз-	Feedforward Control Design of Wave System Based on Reaction Force	Yuuki Inoue (Keio University)
	TT1-2	Feedback Linearization Based Force Controller for 1-DOF Electric Helicopter	Masato Adachi (Mie University)		TT2-2	New evaluation factor for inter-turn stator winding fault detection based on negative sequence components in induction motors	Makoto Kanemaru (Mitsubishi Electric Corporation)	TT3-2	Data-Driven Controller Tuning 2 Using Closed-Loop Data by CL- MOESP Method	Haruki Matsumoto (Mie University
	TT1-3	Impact force control by helical motor	Shunsuke Sasaki (Yokohama National University)		TT2-3	Design, Analysis, and Performance Estimation of a Novel Worm Drive Actuator	Okechukwu Efobi (Yokohama National University, Japan)	ттз-	Torque Ripple Suppression Control Using Hybrid Compensator Based on Disturbance Observer and Torque Ripple Equation	Yoshiaki Seki (Nagaoka University of Technology)
	TT1-4	A New Scaling Method of Force Feedback for Surgical Robot for Single-Port Surgery	Shotaro Maeda (Hosei University)		TT2-4	Postion Sensorless Speed Control Based on Stator Flux Linkage and Stationary Reference Frame for IPMSM	Ryota Takahashi (Nagaoka University of Technology)	ттз-	Force Control with Notch Filter for Suppression of Contact force Fluctuation Caused by Periodic Environmental Change	Tsunenori Mori (Yokohama Nation University)
	TT1-5	Evaluation of Performance of the Surgical Robot HASROSS	Katsuaki Oiwa (Hosei University)		TT2-5	Sensorless Position Estimation Method for Odd-numbered slots Brushed DC Motor	Yuki Saito (Keio University)	ттз-	Periodic Disturbance Suppression 5 Based on Infinite-Order Disturbance Observer	Hisayoshi Muramatsu (Keio University)
	TT1-6	Intersection Turning Assist Control Based on Map and Visual Information	Yukihiro Okumura (Keio University)		TT2-6	Electrolytic Capacitor-Less High- Power-Factor Control Based on Fast Voltage Feedforward Control for IPMSM	Kodai Abe (Nagaoka University of Technology)	ттз-	6 Fully Parameterized Multivariable Controller Design Minimizing Closed-Loop Interaction by Iterative LMI Optimization	Shogo Shinoda (Mie University)
						Break			•	
	IS2: Op	S2: Optimization benchmark problems for industrial applications and related researches			TT4: Mechatronics					
	Kazuyuki Mori Mitsubishi Electric Corporation					Satoshi Komada (Kiyoshi Ohishi)	Mie University			
		Masakazu Suzuki	Tokai University	Naoki Motoi			Kobe University			
		Title	First Autor			Title	First Autor			

	IS2-1	Analysis of the optimization benchmark problem for series- parallel switching of photovoltaic modules under various conditions	Takashi Okamoto (Chiba University)		TT4-1	Experimental Verification of Rudder Control Method Based on Yaw Moment Observer for Electric Skycars in Driving Mode	Sho Umeda (The University of Tokyo)
	IS2-2	On The Small-Start Concept for Learning-Oriented Optimization of Large-scale Adaptive Evolutionary Systems	Masakazu Suzuki (Tokai University)		TT4-2	Modeling of Nonlinear Spring SAT Considering Extension and Contraction Movement for Stiffness Control of Tendon Mechanisms	Yosuke Futamura (Mie University)
		Operational Planning and Scheduling Problem in an Automatic Picking System as a Benchmark – Additional Case Data on Different Scales –	Hitoshi Iima (Kyoto Institute of Technology)		TT4-3	Fundamental Study on Vertical and Longitudinal Force Control for Electric Airplane with Multiple Propellers	Tokuma Ikegami (The University of Tokyo)
	IS2-4	An optimization benchmark problem based on the energy plant model in the smart-community Ryohei Suzuki (Fuji Electric Co., Ltd.)			TT4-4	Torque Sensorless Control for Electric Power Assisted Bicycle with Instantaneous Pedaling Torque Estimation	Takumi Kurosawa (Yokohama National University)
	IS2-5	Operation Planning of Community Energy Management Systems Considering Inter-community Energy Trade	Masahiro Okada (Osaka University)		TT4-5	Integration of distributed maps based on received signal strength among mobile robots	Naoki Hida (Shibaura Institute of Technology)
	IS2-6	Operation Optimization of Office Building Installed SOFC System Using Stochastic Programming	Shoko Kimura (Osaka Prefecture University)		TT4-6	Dynamic Modeling of Free-Floating Wave Energy Converter for Gulf of Thailand	Danai Phaoharuhansa (King Mongkut's University of Technology Thonburi)
						Break	

Break

	IS	3: Intelligent sensing applications f	or human assistive systems		TT5: Industrial applications				
		Hiroshi Igarashi	Tokyo Denki University		Koichi Sakata Yasutaka Fujimoto		Nikon Corporation		
		Sota Shimizu	Keio University				Yokohama National University		
		Title	First Autor			Title	First Autor		
	IS3-1	Self-sustaining drive control of a bike by using a gyro actuator	g a gyro actuator Nariyuki Kodani (Tokai University) of Wide Angle Fovea Sota Shimizu (Keio University) of Prototype- Sota Shimizu (Keio University) ol Method for Mobile Naoki Motoi (Kobe University)		TT5-1	Resonant Ratio Control Based Vibration Suppression Control Using Instantaneous State Observer for High-Stiffness Gear Drives	Thaelasutt Tugeumwolachot (Nagaoka University of Technology)		
14:45-16:25	IS3-2	Development of Wide Angle Fovea Binocular –Lens Design and Production of Prototype–			TT5-2	Positive/Negative Feedback of Disturbance Observer for Compensation of Delay System	Fumito Nishi (Keio University)		
	IS3-3	Remote Control Method for Mobile Robot with Virtual Force Feedback Based on Environmental Information			TT5-3	Control-Oriented Modeling and Parametric Identification of Coupled Dynamics in Ball-Screw-Driven Systems	Thomas Beauduin (The University of Tokyo)		
	IS3-4	Surface Force Feedback Interface with MR Fluid	Hiroshi Igarashi (Tokyo Denki University)		TT5-4	Determination of Torque Distribution Ratio for Front and Rear Wheels Independently Driven Bicycle	Hiroyuki Kawajiri (Saitama University)		
					TT5-5	An experiment of moving power transmission using coaxial contactless power transmission for electric railway	Yoshiyuki Yamaguchi (Yokohama National University)		

	Break											
	Room: 6th Bldg., 5th floor, 6–501											
16:35-17:35 PS1: Plenary Session: Prof. Kenzo Nonami												
					R	ecent Technologies and Business of	and Business of Drones and Prospectives					
18:00-20:00	"Cafe&Hall COMMichi" located at the first basement of the 6th Bldg.											
18:00-20:00 (17:45 Open)	Banquet											
Open)		Danquet										