9:00-10:00	March 8th Room: 6th Bldg, 5th floor, 6-501												
3.00 10.00	PS2: Plenary Session: Prof. Asif ŠebanovićChallenges in Motion Control Systems Break												
		Room 1 (50	1)	ргеак Room 5 (401)				Room 4 (504)					
	IS4: Emerging technologies in motion control			TT6: Robotics 1				TT7: Haptics and network based control					
		Kazuhiro Yubai	Mie University			Toshiaki Tsuji (Yutaka Umemura)	Saitama University			Kenji Natori	Chiba University		
		Ryogo Kubo Title	Keio University First Autor			Daisuke Yashiro Title	Mie University First Autor			Takahiro Mizoguchi Title	KAST First Autor		
	IS4-1	Equilibrium Motion Planning of Humanoid Climbing Robot under Constraints	Akira Shimada (Shibaura Institute of Technology)		TT6-1	Intelligent robot navigation for surveillance behavior – a remote based approach	Takayuki Oshima (University of Toyama)		TT7-1	Mechanical Admittance Control Based on Feedforward Compensation for Fine Realization of Impedance	Yusuke Asai (Nagaoka University of Technology)		
	IS4-2	Deadbeat Feedforward Compensation with Frequency Shaping Available for Continuous Path Control	Noriaki Hirose (Toyota Central R&D Labs., INC.)		TT6-2	Application of Deep Belief Neural Network for Robot Object Recognition and Grasping	Delowar Hossain (University of Toyama)		TT7-2	Modal Space Disturbance Decoupling Method for Bilateral Control	Yoshiyuki Kambara (Keio University)		
10:15- 12:15	IS4-3	Adaptive Robot Formations using Multiobjective Evolution of Neural Controllers	Genci Capi (University of Toyama)		TT6-3	Control Performance and Stability Evaluation Based on Unfalsified Control for a Reconfigurable Robot	Ryota Isobe (Mie University)		TT7-3	Simulations of 2D Tactile Display Using Compact Solenoid Actuators.	Sakahisa Nagai (Yokohama National University)		
	IS4-4	The application of vibration suppression control method for servo products	Yasufumi Yoshiura (Yaskawa Electric Corporation)		TT6-4	Center of Mass State Based Control for Bipedal Robot	Kazuya Tamura (Yokohama national university)		TT7-4	A Performance Analysis of Distributed Control over Multi-hop Network using STDMA Switches	Yu Imai (Mie University)		
	IS4-5	A holonomy-based motion planning approach for a second-order nonholonomic system	Masahide Ito (Aichi Prefectural University)		TT6-5	A human-like robot intelligent navigation in dynamic indoor environments	Hua Bin (University of Toyama)		TT7-5	Design of network-based control system in consideration of packet loss and time delay	Tooru Suhara (Shibaura Institute of Technology)		
	IS4-6	A Geard Servo Motor with Output Torque control and Sensing Capability	Kotaro Saito (ROBOTEC.Inc)		TT6-6	Trajectory Generation of Leg Motion with CoG Limitation of Swing leg for Reducing Yaw-Axis Torque on Biped Robot	Shin Uhara (Seikei University)		TT7-6	Modal Space Selection and Control in Bilateral Control under Time Delay	Satoshi Nishimura (Keio University)		
		0 1/501)				Break							
	Room 1 (501) IS5: High precision motion control				Room 5 (401) TT8: Robotios 2					Room 2 & 3 V: Video and Interactive 13:00-14:40 Video ses	ssion		
	Making Latitute of Technology			1			China tana cara c	1		14:40-15:20 Poster Se Masaaki Shibata	ssion		
		Kazuaki Ito	Tovota College			Yutaka Uchimura Seiichiro Katsura	Shibaura Institute of Technology Keio University			Masaaki Shibata Sho Sakaino	Seikei University		
		Hiroshi Fujimoto Title	The University of Tokyo First Autor			Title	First Autor			SHO SAKAINO	Saltama University		
	IS5-1	Estimation Method of Unobservable Oscillations in Sampled-Data Positioning Systems	Takenori Atsumi (Chiba Institute of Technology)		TT8-1	Improvement of Rough Terrain Running Ability for Mobility Robot with In-Wheel Motor	Ryohei Sato (The University of Tokyo)						
	IS5-2	Comparison of Generation Method of Feedforward Input in Time and Frequency Domain for System with Unstable Zero	Takayuki Shiraishi (National Institute of Technology, Kagoshima College)		TT8-2	Experimental Study on Formation Variable Form Swarm Robot System by Environment Recognition	Toshiki Midorikawa (National Institute of Technology, Gunma College)						
13:15- 15:15	IS5-3	Initial Friction Compensation for Suppressing Response Dispersion in Micrometer Stroke Positioning	Yoshihiro Maeda (Nagoya Institute of Technology)		TT8-3	Design and Development of a Mobile Rostrum Robot for University Convocation Ceremony in Malaysia	Dickson, Tze How Neoh (National Energy University, Malaysia)						
	IS5-4	Influence of the Nonlinear Friction Characteristics onto the Motion Behavior of Feed Drive Systems	Ryuta Sato (Kobe University)		TT8-4	Development of super multi-joint robot driven by single power source	Takashi Nagai (Shibaura Institute of Technology)						
	IS5-5	Parameter Design of Optical Lens Control System Using Limited Pole Placement Method	Yoshiyuki Urakawa (Sony Corporation)		TT8-5	Disturbance Obeserver With Variable Gain for Saving Energy of Robots	Ryuya Komatsu (Keio University)						
	IS5-6	Retrospection on control-oriented case study of nonlinear elasticities in wave-motion gears	Michael Ruderman (University of Agder)		TT8-6	Bilateral Control Using Functional Electrical Stimulation Considering Muscle Length	Hiroto Mizoguchi (Saitama University)						
	I	191: Marring and the related dealers in the			Break TT9: Human support and rehabilitation systems								
	IS1: Haptics and its related technologies Yutaka Uchimura Shibaura Institute of Technology			1		TT9: Human support and rehabil Tomoyuki Shimono	Yokohama National University						
		Takahiro Endo	Kyoto University			Hiroshi Igarashi	Tokyo Denki University						
	IS1-1	Title Bilateral Control of Single-Rotor Helicopter	First Autor Daisuke Yashiro (Mie University)		TT9-1	Title Force Sensorless Power Assist Control for Wheelchair on Flat Road Using Recursive Least Square with Multiple Forgetting	First Autor Xi Lele (The University of Tokyo)						
	IS1-2	Force Control of a Flexible Timoshenko Arm for Softness Display	Takahiro Endo (Kyoto University)	•	TT9-2	Assistive Control using Monocular Fisheye Camera for Power Assist Wheelchair	Takatoshi Oikawa (Chitose Institute of Science and Technology)						
15:30- 17:30	IS1-3	A New Possibility of Bilateral Control -Functional Electrical Stimulation-	Sho Sakaino (Saitama University)		TT9-3	Quantitative Evaluation of Hemiplegic Ankle Spasticity Using Angular Velocity Control System with Torque Sensor and EMG	Satoshi Shibata (Mie University)						
	IS1-4	Tactile Display Using Ultrasonic Vibration	Masaya Takasaki (Saitama University)		TT9-4	Evaluation of Muscular Power Measurement Equipment of Lower Limbs to Measure Output Force Distribution	Yuki Mizutani (Mie Univeristy)						
	IS1-5	Transfer Function-based Approach for Designing Two-channel Bilateral Control Systems	Yasutaka Fujimoto (Yokohama National University)		TT9-5	A Robotic Cane for Walking Support Using Two Control Modes	Kyohei Shimizu (Yokohama National University)						
					TT9-6	Wearable Device for Postural Control using Control Moment Gyroscopes	Hiroki Ohya (Yokohama National University)						