

March 9th									
10:20-10:35	Lecture Room A								
10:40-11:40	Opening								
	Lecture Room A								
	Plenary Session1: Prof. Tom Oomen "Advanced Motion Control for Next-Generation Precision Mechatronics: Challenges for Control, Identification, and Learning"								
	Break								
	Lecture Room E			Lecture Room F			Lecture Room D		
	SS1: Haptics and its Related Technologies			TT1: Control Theory 1			TT2: Medical and Rehabilitation Applications		
	Prof. Yutaka Uchimura			Prof. Yoshihiro Maeda			Prof. Atsushi Umemura		
	Prof. Daisuke Yashiro			Prof. Chowari Mitsunobu			Prof. Takahiro Nozaki		
	Title	First Author		Title	First Author		Title	First Author	
13:00-15:00	SSI-1	Human-Machine Interactive Control for Gearing Mechatronic Systems by Using Load-side Encoder	Shota Yamada (The University of Tokyo), Hiroshi Fujimoto (The University of Tokyo)	TT1-1	Fully Parameterized Controller Design Method for High Control Bandwidth Using Frequency Response Data Sets	Kazuki Nakamura (Mie University), Kazuhiro Yubai (Mie University), Daisuke Yashiro (Mie University), Satoshi Komada (Mie University)	TT2-1	Improvement of the Operability of an Electric Wheelchair with a Brain-Computer Interface Headset	Kaira Matsuzawa (Hosei University), Chiharu Ishii (Hosei University)
	SSI-2	Optimization of Magnets Length based on Theoretical Equation for Cross-Coupled 2 DOF Planar Direct Drive Motor	Hiroshi Arai (Yokohama National University, Kanagawa Academy of Science and Technology), Koki Sakuma (Yokohama National University, Kanagawa Academy of Science and Technology), Tomoyuki Shimono (Yokohama National University, Kanagawa Academy of Science and Technology), Takahiro Mizoguchi (Kanagawa Academy of Science and Technology), Shuhei Yamaguchi (Yokohama National University)	TT1-2	Reduction of Collision Torque for Fast Screw Tightening	Shohei Ogawa (Yokohama National University), Atsuo Kawamura (Yokohama National University)	TT2-2	Improvement of Control System of a Feedback Device of Temperature Sensation for a Myoelectric Prosthetic Hand	Yuki Ueda (Hosei University), Chiharu Ishii (Hosei University)
	SSI-3	Bilateral Control of Two-Link Human Arms Using Antagonist Muscle Stimulation	Tomoya Kitamura (Saitama University), Naoto Mizukami (Saitama University), Sho Sakano (Saitama University), Toshiaki Tsuji (Saitama University)	TT1-3	Direct Tuning of State Feedback Gains with Stability Constraint Based on Nyquist Criterion Considering Inter-grid Behavior	Shohei Aoki (Mie University), Kazuhiro Yubai (Mie University), Daisuke Yashiro (Mie University), Satoshi Komada (Mie University)	TT2-3	Controlling an electric hip disarticulation prosthesis by adopting kalman filter: A simulation study	Yoshi Fujiwara (Seikei University), Masaki Shibata (Seikei University), Yuki Ueyama (Seikei University)
	SSI-4	Haptic Telepresence System with Multi-Degree of Freedom Exoskeleton and Humanoid Robot	Satoshi Fukushima (Keio University), Hiromu Sekiguchi (Keio University), Yuki Saito (Keio University), Takahiro Nozaki (Keio University), Kouhei Ohnishi (Keio University)	TT1-4	Control of Multi-Degree-of-Freedom System Considering Information Connection Based on Force Propagation	Koya Nambu (Keio University), Tomoki Kono (Keio University), Seichiro Katsura (Keio University)	TT2-4	Development of Muscular Force Evaluation Method for Lower Limbs based on Output Force Distribution	Yuki Mizutani (Mie University), Satoshi Komada (Mie University), Daisuke Yashiro (Mie University), Kazuhiro Yubai (Mie University), Akimobu Nishimura (Mie University)
	SSI-5	Sensing of Heat Source in Deep Layer Considering Heat Propagation	Yukiko Osawa (Keio University), Seichiro Katsura (Keio University)	TT1-5	A Direct Tuning of Disturbance Observer by Experimental Data Set: Satisfying Nyquist Stability Criterion	Naoya Iwamoto (Mie University), Kazuhiro Yubai (Mie University), Daisuke Yashiro (Mie University), Satoshi Komada (Mie University)	TT2-5	Estimation of Muscle Force Considering Tibiofemoral Joint and Patellofemoral Joint Compressive Forces	Daichi Sugita (Mie University), Satoshi Komada (Mie University), Daisuke Yashiro (Mie University), Kazuhiro Yubai (Mie University), Sebastian Laporte (Ersam University)
	SSI-6	Constraint Control of Variable-Structured Elastic Mechanism Based on Passive Disturbance Observer	Kazumasa Miura (Keio University), Seichiro Katsura (Keio University)	TT1-6	Sensitivity Shaping Method for MIMO Systems Using Input/Output Data	Keita Takewaka (Mie University), Kazuhiro Yubai (Mie University), Daisuke Yashiro (Mie University), Satoshi Komada (Mie University)	TT2-6	Experimental Verification of Active Motion Evaluation by Mechanical Power Factor Analysis Using the Specific Frequency Component	Shin'ichi Osada (Yokohama National University, Kanagawa Academy of Science and Technology), Tomoyuki Shimono (Yokohama National University, Kanagawa Academy of Science and Technology), Takahiro Mizoguchi (Kanagawa Academy of Science and Technology), Kouhei Ohnishi (Keio University, Kanagawa Academy of Science and Technology)
	Break								
	Lecture Room E			Lecture Room F			Lecture Room D		
	SS2: Young Researchers in Motion Control			TT3: High Precision Control & Industrial Applications			TT4: Actuator Control and Optimization		
	Prof. Ryogo Kubo			Prof. Daisuke Yashiro			Prof. Kiyoshi Ohishi		
	Prof. Sehoon Oh			Dr. Koichi Sakata			Dr. Hidetoshi Ikeda		
	Title	First Author		Title	First Author		Title	First Author	
15:20-17:30	SS2-1	Learning Identity Mapping of Trajectories by Sequence-to-Sequence Model with Time Series Chunking	Kyo Kutsuzawa (Saitama University), Sho Sakano (Saitama University), Toshiaki Tsuji (Saitama University)	TT3-1	Spatial Disturbance Suppression of Flexible System Based on Wave Model	Yuki Inoue (Keio University), Seichiro Katsura (Keio University)	TT4-1	Servo Control Feasibility of a Magnetic Screw-Like Radial-Gap RotLin Actuator	Christophe GYUSA S. (Yokohama National University), Yasutaka Fujimoto (Yokohama National University)
	SS2-2	Average Consensus Problem in a Multiragent System with Communication Restriction	Hiroki Kimura (Tokai University), Atsushi Okuyama (Tokai University)	TT3-2	Aircraft Yaw-rate Control by Electrically Driven Wheel for Crosswind Landing	Toshiki Niinomi (The University of Tokyo), Hiroshi Fujimoto (The University of Tokyo), Akira Nishizawa (Japan Aerospace Exploration Agency), Hiroshi Kobayashi (Japan Aerospace Exploration Agency), Yasumasa Watanabe (The University of Tokyo)	TT4-2	Sensor-less Estimation and Compensation of Load Side Disturbance Based on Wave Model	Kohei Tonikai (Keio University), Seichiro Katsura (Keio University)
	SS2-3	Robot Motion Control using Singular-Spectrum-Analysis-based Instantaneous State Observer	Thao Tran Phuong (Nagaoka University of Technology), Junichi Fukui (Nagaoka University of Technology), Akimori Yabuki (Nagaoka University of Technology), Kiyoshi Ohishi (Nagaoka University of Technology), Yuki Yokokura (Nagaoka University of Technology), Tomonori Mashimo (Oriental Motor Co., Ltd., Japan)	TT3-3	Hysteresis Modeling and Adaptive Feedforward Compensation Based on NLMs Algorithm in Piezoelectric Actuators	Tatsuru Senyo (Nagoya Institute of Technology), Kenta Seki (Nagoya Institute of Technology), Makoto Iwasaki (Nagoya Institute of Technology)	TT4-3	Robust Control of Parameter Fluctuations for Helical Motor	Jessica Bergamo (Yokohama National University), Yasutaka Fujimoto (Yokohama National University)
	SS2-4	Simultaneous Presentation of Thermal and Tactile Sensations Using Multilateral Control under Time Delay	Satoshi Nishimura (Keio University), Yukiko Osawa (Keio University), Hiroki Kurumatani (Keio University), Yuki Nagatsu (Keio University), Kazumasa Miura (Keio University), Seichiro Katsura (Keio University)	TT3-4	Survey of Vehicle Electrification Technologies and Their Future in Kenya	Hilary Bett (Yokohama National University), Atsuo Kawamura (Yokohama National University)	TT4-4	Position and Torque Sensorless Motion Transmission Using Voltage Compensation	Shuhei Akutsu (Keio University), Hiromu Sekiguchi (Keio University), Toshiaki Murakami (Keio University)
	SS2-5	Wave Equation Based Modeling and Vibration Cancellation for Pneumatic Cylinder	Wataru Ohnishi (The University of Tokyo), Hiroshi Fujimoto (The University of Tokyo), Pa-Hsueh Yang (Nikon Research Corporation of America), Ping-Wei Chang (Nikon Research Corporation of America), Bausan Yuan (Nikon Research Corporation of America), Koichi Sakata (Nikon Corporation), Atsushi Hara (Nikon Corporation)	TT3-5	Virtual Damping Control of Two-Mass Systems for Vibration Suppression of Lead Vibration due to Self-locking Function	Daiki Yamauchi (Nagoya Institute of Technology), Kazuki Ito (National Institute of Technology, Toyota College), Makoto Iwasaki (Nagoya Institute of Technology)	TT4-5	Virtual Impedance Control for Humanoid Robots with Adaptive Foot Placement	Kazuya Tamura (Yokohama National University), Atsuo Kawamura (Yokohama National University)
	SS2-6	Building and Test a Controller of the Robotic Care for Walking Assistance	Phi Van Lam (Yokohama National University), Yasutaka Fujimoto (Yokohama National University)	TT3-6	Force Sensorless Fast Force Control for Probing Systems Using aKF	Sakahisa Nagai (Yokohama National University), Roberto Oboe (University of Padova), Tomoyuki Shimono (Yokohama National University), Atsuo Kawamura (Yokohama National University)	TT4-6	Basic Study on Range Extension Autonomous Driving of Electric Vehicle Considering Velocity Constraint for Real-Time Implementation	Takuya Fukuda (The University of Tokyo), Hiroshi Fujimoto (The University of Tokyo), Yoshi Hori (The University of Tokyo), Daisuke Kawano (National Traffic Safety and Environment Laboratory), Yuichi Goto (National Traffic Safety and Environment Laboratory), Yusuke Takeda (Ono soki), Koji Sato (Ono soki)