

Session Room 2 & Virtual Space		
Poster session 1: Sensing and actuation		
10:00–11:00 Oral short speech session		
11:00–12:00 Poster dialogue session		
	Prof. Yutaka Uchimura	Prof. Hiroshi Igarashi
	Title	First Autor
P1-1	Predicting Total Luminous Flux of a White LED Using Machine Learning	Seiya Fujimoto (Kindai University)
P1-2	A Machine-Learning Based Detection Method of Crossing-Gate Rod Breakage in a Railway Telemeter System	Hiroya Tanoue (Kindai University)
P1-3	An Omnidirectional Multicopter Tracking System with HFR-Video-Based Vibration Source Localization	Mingjun Jiang (Hiroshima University)
P1-4	Vibration-Feature-Based Multicopter Detection with CNN-Based Appearance Validation	Sushil Raut (Designated Assistant)
P1-5	Automatic System for the Wiring of Safety Wire with Image Recognition of the Wiring Hole	Shinichi Ito (Gifu University)
P1-6	Estimation of Jacobian Matrix on Omni-Directional Mobile Walker	Kentaro Ominato (Keio University)
P1-7	Comparison of Resonant Frequency Matching Control and Virtual Damping Control for Wave Energy Converter Using a Helical Motor	Ayame Makimura (Mie University)
P1-8	Basic Study on Effect of Repetitive Perfect Tracking Control on Iron Loss of IPMSM	Yuhiro Inagaki (The University of Tokyo)
P1-9	Comparative Verifications of Friction and Control Performance in Three Different Types of Pneumatic Actuators	Koki Kawai (Nagoya Institute of Technology)
P1-10	Design Method of Electric Inertia for Vibrating the Torsion Torque to Match the Amplitude of Sinusoidal Disturbance Torque	Hikaru Sato (Nagaoka University of Technology)
P1-11	Position Control for Soliton Drive System	Ken Miyahara (Keio University)
P1-12	A Preliminary Study on Dual Reaction Wheel System with Actuator Arranged Coil Horizontally for Ultra-Small Satellite	Sota Suzuki (National Institute of Technology, Gunma College)
P1-13	Experimental Verification of N-Phase Inverter Connected to Multiple Coils for Dynamic Wireless Power Transfer	Chonghao Hong (The University of Tokyo)

Session Room 2 & Virtual Space		
Poster session 2: Control theory and its applications		
13:00–14:00 Oral short speech session		
14:00–15:00 Poster dialogue session		
	Prof. Kazuaki Ito	Prof. Tomoyuki Shimono
	Title	First Autor
P2-1	Practical Auto-Tuning of Feedback Control Parameters Based on Sequential Calculation of Stable Parameter Search Space	Koki Tsuchiya (Nagoya Institute of Technology)
P2-2	Indirect Pitch Control of Wind Turbine System Considering Motion Effect of Pitch Actuator	Masashi Yamada (Keio University)
P2-3	Sloshing Suppression Control of Liquid Surface in Hydraulic Shaking Table Systems	Hayata Ueno (Nagoya Institute of Technology)
P2-4	Quadrotor Attitude Control with MIMO Adaptive PID Control	Kenta Matsuo (Shibaura Institute of Technology)
P2-5	Optimization Using Piecewise Linear Approximation for Energy Plant Operation Planning Problems with Nonlinear Constraints	Kimihiko Nakama (Chiba University)
P2-6	Modeling of Malware Propagation in IoT Network and Mitigation in Area Based on Local Routing Depth	Rodrigo Matos Garnier (Yokohama National University)
P2-7	Vibration Suppression Control Using a Vibration Coordinate System Based on Dq-Transform	Tatsuya Kani (Mie University)
P2-8	Improvement of Wind-Induced Tracking Error in Horizontal Direction for a Multicopter	Ryota Seki (Chiba Institute of Technology)
P2-9	Improved Positioning Accuracy of the Multicopter for Vertically Applied Wind Disturbances	Keitaro Oriuchi (Chiba Institute of Technology)
P2-10	Detection of Table Motion and Full-Closed Control System Design in Two-Dimensional Shaking Table Systems	Kensuke Ohno (Nagoya Institute of Technology)
P2-11	Controller Design for Inverter via Virtual Reference Feedback Tuning	Kouki Tanaka (Mie University)
P2-12	Tip Vibration Suppression of a Flexible Lightweight Robot by Fixed Structure H ∞ Control Using Acceleration Feedback	Takaaki Hayashi (University of Tokyo)
P2-13	Free Movement Prediction of Rigid Objects Based on Object State Information Under Grasping Motion	Daisuke Yanabe (Keio University)

Session Room 2 & Virtual Space		
Poster session 3: Robotics and mechatronics		
15:30–16:30 Oral short speech session		
16:30–17:30 Poster dialogue session		
	Prof. Yasutaka Fujimoto	Prof. Yuki Nagatsu
	Title	First Autor
P3-1	Obstacle Avoidance of Omnidirectional Mobile Robots in Consideration of Motion Performance	Yuta Ando (Aichi Prefectural University)
P3-2	A Contact Position Estimation Method by Force/Torque Sensorless Approach for Omni-Directional Mobile Robots	Toshiyuki Nagasawa (Keio University)
P3-3	Imitation Learning to Generate Motions by Discriminating Between Position and Force Control from Human Motions	Kazuki Yane (Keio University)
P3-4	Automatic Stop Control Just After Penetration for Drilling Device in Dental Implant Surgery in the Upper Jaw Based on the Cutting Resistance Variation	Yusuke Kido (Keio University)
P3-5	High-Precision Modeling and Position Control of Six-Axis Robots	Takeshi Fujitsuka (Gifu University)
P3-6	Driving Force Distribution Control for Turning Motion in Omni-Directional Mobile Robot	Shuichi Tatsumi (Keio University)
P3-7	Time-Series Motion Generation Considering Velocity and Force for Calligraphy Robot	Ryotaro Kobayashi (Keio University)
P3-8	Vibration Suppression Control of Series Elastic Actuators Considering First-Order Load Disturbance	Atsushi Hiraoka (Keio University)
P3-9	An Application of Visual Servo Control with Humanoid Climbing Robot	Yuzuki Kobayashi (Shibaura Institute of Technology)
P3-10	Lower Limb Interfaces Considering the Manipulability Ellipsoid in Electric Wheelchairs	Hiroki Morishita (Keio University)
P3-11	Development of Orthopedic Haptic Drill for Detection of Penetration	Hironao Kobayashi (Yokohama National University)
P3-12	A Study on 3D Haptic Interface and Visualization System for Perceiving Electromagnetic Field and Coulomb Force by Two Point Charges	Ryota Imanishi (Nihon University)
P3-13	Development of Haptic Display System Aided by Multibody Dynamics Simulation	Tomotaka Okumura (Nagoya Institute of Technology)