8:00-8:10	March 10th Opening								
8:10-9:10	Plenary Session 1								
9:10-10:30									
10:30-12:30	Session Room 1				Session Room 2				
	01 :	IS1: Motion Control for H	T	01 :	TT1: Sensing and its Applications				
	Chair	Prof. Yoshiyuki Urakawa Title	Prof. Kenta Seki Speaker	Chair	Prof. Hiroshi Igarashi Title	Prof. Sota Shimizu Speaker			
	IS-1	A Summary of Disturbance Observer Design Methodology for Non-Minimum Phase System	Summary of Disturbance server Design Methodology Tokyo)  XiaoKe Wang (The University of TT1-1 Tokyo)  Automatic Detection Tipburn in Plant F Artificial Light Use		Automatic Detection of Lettuce Tipburn in Plant Factory with Artificial Light Using Deep Learning	lori Ogasahara (Chiba University)			
	IS-2	Fast and Precise Position Control of Articulated Robot Using Estimated Load Acceleration	Kazuaki Ito (Gifu University)	TT1-2	Validation of Trained Convolutional Neural Network Model in Detection of Braille Blocks to Guide Visually Impaired People	Toshiaki Okamoto (Yokohama National University)			
	IS-3	Simultaneous Identification of Backlash Amount and Linear Characteristics with Hybrid Identification of Time-Series Data and Frequency Response Data	Ryohei Kitayoshi (YASKAWA Electric Corporation)	TT1-3	Evaluation of Sensor Fusion Approaches for Fall Detection	Anita Ramachandran (Birla Institute of Technology and Science, Pilani)			
	IS-4	Force Control of Propeller- Driven Systems Using Rotor Angular Velocity	Daisuke Yashiro (Mie University)	TT1-4	In-Tool Motion Sensing for Reproduction of Violin Performance	Kodai Fujisaki (Keio University)			
	IS-5	Bilateral Control Between Human and Robot by Using Functional Electrical Stimulation	Sho Sakaino (University of Tsukuba)						
	IS-6	Multiple Moving Targets Observation with Visual Servoing	Daisuke Matsuka (Hitachi, Ltd.)						
12:30-13:30			Lunch	Break					
	Session Room 1 SS1: Advanced Control in Motion Control, Power Electronics, and				Session Room 2 SS2-1: Advanced Motion Control for High Value-Added Mechatronic				
	Chair	Industrial Applic Prof. Jing Na	cations Prof. Tadanao Zanma	Chair	Systems in the 21: Prof. Takenori Atsumi	st Century  Daisuke Matsuka			
	Ondii	Title	Speaker	Oridii	Title	Speaker			
	SS1-1	Boom Positioning and Load Sway Suppression for Rotary Cranes Using Online Trajectory Generation Method	Zheng Tian (Nanjing Tech University)	SS2-1 -1	Addition of Robustness in the Reference Signal Self-Organizing Control System Based on Deep	Hiromichi Iwasaki (Tokai University)			
					Reinforcement Learning	•			
	SS1-2	Adaptive Neural Network Control for Tower Cranes with Double- Pendulum Effects and Non-Ideal Inputs	Menghua Zhang (University of Jinan)	SS2-1 -2	Reinforcement Learning  Basic Research About Navigation by Multi Agents Using Profit Sharing	Shimon Sawada (Tokai University)			
13:30-15:30	SS1-2 SS1-3	for Tower Cranes with Double- Pendulum Effects and Non-Ideal			Basic Research About Navigation by Multi Agents Using Profit				
13:30-15:30	SS1-3	for Tower Cranes with Double- Pendulum Effects and Non-Ideal Inputs  Adaptive Dynamic Programming- Based Motion Control for Uncertain Underactuated	Jinan)  Tong Yang (Nankai University)  Qiang Chen (Zhejiang University	-2 SS2-1	Basic Research About Navigation by Multi Agents Using Profit Sharing  Model Predictive Control with Variable Predictive Horizon for Remote Control System	University) Hiroki Arai (Shibaura Institute of			
13:30-15:30	SS1-3	for Tower Cranes with Double- Pendulum Effects and Non-Ideal Inputs  Adaptive Dynamic Programming- Based Motion Control for Uncertain Underactuated Systems  Finite-Time Prescribed Performance Control for Attitude	Jinan)  Tong Yang (Nankai University)  Qiang Chen (Zhejiang University	-2 SS2-1 -3	Basic Research About Navigation by Multi Agents Using Profit Sharing  Model Predictive Control with Variable Predictive Horizon for Remote Control System Including Variable Delay  Detection of Reduced Magnetic Attraction Force Using a Disturbance Observer for	University)  Hiroki Arai (Shibaura Institute of Technology)  Natsuki Kageyama (Chiba			
13:30-15:30	SS1-3 SS1-4	for Tower Cranes with Double- Pendulum Effects and Non-Ideal Inputs  Adaptive Dynamic Programming- Based Motion Control for Uncertain Underactuated Systems  Finite-Time Prescribed Performance Control for Attitude Tracking of Uncertain Spacecraft  Adaptive Parameter Identification for Sandwich	Jinan)  Tong Yang (Nankai University)  Qiang Chen (Zhejiang University of Technology)  Jing Na (Kunming University of	-2 SS2-1 -3 SS2-1 -4	Basic Research About Navigation by Multi Agents Using Profit Sharing  Model Predictive Control with Variable Predictive Horizon for Remote Control System Including Variable Delay  Detection of Reduced Magnetic Attraction Force Using a Disturbance Observer for Crawler Robots  Feedforward Control for Track Seeking Control in Hard Disk Drive with Sampled-Data Polynomial Based on Causal	University)  Hiroki Arai (Shibaura Institute of Technology)  Natsuki Kageyama (Chiba Institute of Technology)  Kazuho Igarashi (Chiba Institute			
13:30-15:30	SS1-3 SS1-4 SS1-5	for Tower Cranes with Double- Pendulum Effects and Non-Ideal Inputs  Adaptive Dynamic Programming- Based Motion Control for Uncertain Underactuated Systems  Finite-Time Prescribed Performance Control for Attitude Tracking of Uncertain Spacecraft  Adaptive Parameter Identification for Sandwich Systems Subject to Dead-Zone  Robust Tracking Control for Full- State-Constrained Robot Manipulator Systems Subject to	Jinan)  Tong Yang (Nankai University)  Qiang Chen (Zhejiang University of Technology)  Jing Na (Kunming University of Science and Technology)  Chen Dai (Southeast University)	-2 SS2-1 -3 SS2-1 -4	Basic Research About Navigation by Multi Agents Using Profit Sharing  Model Predictive Control with Variable Predictive Horizon for Remote Control System Including Variable Delay  Detection of Reduced Magnetic Attraction Force Using a Disturbance Observer for Crawler Robots  Feedforward Control for Track Seeking Control in Hard Disk Drive with Sampled-Data Polynomial Based on Causal	University)  Hiroki Arai (Shibaura Institute of Technology)  Natsuki Kageyama (Chiba Institute of Technology)  Kazuho Igarashi (Chiba Institute			
	SS1-3 SS1-4 SS1-5	for Tower Cranes with Double- Pendulum Effects and Non-Ideal Inputs  Adaptive Dynamic Programming- Based Motion Control for Uncertain Underactuated Systems  Finite-Time Prescribed Performance Control for Attitude Tracking of Uncertain Spacecraft  Adaptive Parameter Identification for Sandwich Systems Subject to Dead-Zone  Robust Tracking Control for Full- State-Constrained Robot Manipulator Systems Subject to	Jinan)  Tong Yang (Nankai University)  Qiang Chen (Zhejiang University of Technology)  Jing Na (Kunming University of Science and Technology)  Chen Dai (Southeast University)	-2  SS2-1 -3  SS2-1 -4  SS2-1 -5	Basic Research About Navigation by Multi Agents Using Profit Sharing  Model Predictive Control with Variable Predictive Horizon for Remote Control System Including Variable Delay  Detection of Reduced Magnetic Attraction Force Using a Disturbance Observer for Crawler Robots  Feedforward Control for Track Seeking Control in Hard Disk Drive with Sampled-Data Polynomial Based on Causal First-Order Hold	University)  Hiroki Arai (Shibaura Institute of Technology)  Natsuki Kageyama (Chiba Institute of Technology)  Kazuho Igarashi (Chiba Institute			
15:30-16:00	SS1-3 SS1-4 SS1-5	for Tower Cranes with Double- Pendulum Effects and Non-Ideal Inputs  Adaptive Dynamic Programming- Based Motion Control for Uncertain Underactuated Systems  Finite-Time Prescribed Performance Control for Attitude Tracking of Uncertain Spacecraft  Adaptive Parameter Identification for Sandwich Systems Subject to Dead-Zone  Robust Tracking Control for Full- State-Constrained Robot Manipulator Systems Subject to	Jinan)  Tong Yang (Nankai University)  Qiang Chen (Zhejiang University of Technology)  Jing Na (Kunming University of Science and Technology)  Chen Dai (Southeast University)	-2 SS2-1 -3 SS2-1 -4 SS2-1 -5	Basic Research About Navigation by Multi Agents Using Profit Sharing  Model Predictive Control with Variable Predictive Horizon for Remote Control System Including Variable Delay  Detection of Reduced Magnetic Attraction Force Using a Disturbance Observer for Crawler Robots  Feedforward Control for Track Seeking Control in Hard Disk Drive with Sampled-Data Polynomial Based on Causal First-Order Hold	University)  Hiroki Arai (Shibaura Institute of Technology)  Natsuki Kageyama (Chiba Institute of Technology)  Kazuho Igarashi (Chiba Institute			

Support Applic Prof. Naoki Motoi Title  Stigation of Search Intent ision Indicators by Gaze ection for Additional Pan Control of TPR Ilopment of Collision Alert ttem Using a Single WAF Isor — Proposal of Mean lattan Distance Algorithm Detected Feature Points — man Tracking Control by Model Predictive Control Human Trajectory Model for Mobile Robot  erimental Verifications of Strain Signal—Based stiton/Force Control in electric Bimorph Actuators emematical Modeling. Finite Element Analysis, and erimental Verification of SCOUPIED Tubular SPMSN sition Control Based on st Load–Side Acceleration trol Using Instantaneous te Observer for Industrial Robot  Session Ro  SS4: Haptics and De Prof. Takahiro Endo  Title	Prof. Tomoyuki Shimono  Speaker  Reo Arita (Tokyo Denki University)  Kenta Otsuka (Shibaura Institute of Technology)  Naoki Motoi (Kobe University)  Kenta Seki (Nagoya Institute of Technology)  Tomoyuki Shimono (Yokohama National University)  Taiga Shinozaki (Nagaoka University of Technology)	TT4-4	Prof. Koichi Hidaka  Title  Optimal Transient Control of In- Motion Wireless Power Transfer for Receiving Energy Maximization Using Envelope Model  Design of an Engine Controller to Separate the Fuel Consumption and SOC Evaluation for HEVs  Reducing Power Consumption of Tilt-Wing eVTOL Aircraft During Hovering Flight in Crosswind  Proposal of Hand-Controlled EVs Including Turning Movements and Its Application to Safe Narrow-Lane Exit	Prof. Yuki Yokokura  Speaker  Keiichiro Tokita (The University of Tokyo)  Hokuto Yahagi (Tokyo Denki University)  Masatoshi Mizuno (University of Tokyo)  Shinsei Yoshikiyo (The University of Tokyo)		
Title stigation of Search Intent ision Indicators by Gaze ection for Additional Pan Control of TPR lopment of Collision Alert tem Using a Single WAF soor – Proposal of Mean nattan Distance Algorithm Detected Feature Points – man Tracking Control by Model Predictive Control Human Trajectory Model for Mobile Robot Strain Signal-Based sition/Force Control in electric Bimorph Actuators nematical Modelings, and erimental Verification of erimental Verification of strain Signal-Based sition/Force Control in electric Bimorph Actuators nematical Modelings, and erimental Verification of erimental Verification of erimental Verification of scale Side Acceleration trol Using Instantaneous trol Using Instantaneous trol Using Instantaneous to Observer for Industrial Robot  Session Ro SS4: Haptics and De Prof. Takahiro Endo Title	Speaker  Reo Arita (Tokyo Denki University)  Kenta Otsuka (Shibaura Institute of Technology)  Naoki Motoi (Kobe University)  Kenta Seki (Nagoya Institute of Technology)  Tomoyuki Shimono (Yokohama National University)  Taiga Shinozaki (Nagaoka University of Technology)  Lunch	TT4-1 TT4-2 TT4-3 TT4-4	Title Optimal Transient Control of In- Motion Wireless Power Transfer for Receiving Energy Maximization Using Envelope Model Design of an Engine Controller to Separate the Fuel Consumption and SOC Evaluation for HEVs  Reducing Power Consumption of Tilt-Wing eVTOL Aircraft During Hovering Flight in Crosswind  Proposal of Hand-Controlled EVs Including Turning Movements and Its Application	Speaker  Keiichiro Tokita (The University of Tokyo)  Hokuto Yahagi (Tokyo Denki University)  Masatoshi Mizuno (University of Tokyo)  Shinsei Yoshikiyo (The		
ision Indicators by Gaze ection for Additional Pan Control of TPR Illopment of Collision Alert tem Using a Single WAF soor – Proposal of Mean nattan Distance Algorithm Detected Feature Points – man Tracking Control by Model Predictive Control Human Trajectory Model for Mobile Robot serimental Verifications of Strain Signal-Based sition/Force Control in electric Bimorph Actuators nematical Modeling, Finite Element Analysis, and erimental Verification of s-Coupled 2-DOF Tubular SPMSM sition Control Based on st Load-Side Acceleration trol Using Instantaneous trol Using Instantaneous trol Using Instantaneous to Observer for Industrial Robot  Session Ro SS4: Haptics and De Prof. Takahiro Endo Title	University)  Kenta Otsuka (Shibaura Institute of Technology)  Naoki Motoi (Kobe University)  Kenta Seki (Nagoya Institute of Technology)  Tomoyuki Shimono (Yokohama National University)  Taiga Shinozaki (Nagaoka University of Technology)  Lunch	TT4-2	Motion Wireless Power Transfer for Receiving Energy Maximization Using Envelope Model Design of an Engine Controller to Separate the Fuel Consumption and SOC Evaluation for HEVs  Reducing Power Consumption of Tilt-Wing eVTOL Aircraft During Hovering Flight in Crosswind  Proposal of Hand-Controlled EVS Including Turning Movements and Its Application	of Tokyo)  Hokuto Yahagi (Tokyo Denki University)  Masatoshi Mizuno (University of Tokyo)  Shinsei Yoshikiyo (The		
ttem Using a Single WAF nsor - Proposal of Mean nattan Distance Algorithm Detected Feature Points - man Tracking Control by Model Predictive Control Human Trajectory Model for Mobile Robot  erimental Verifications of Strain Signal-Based sition/Force Control in electric Bimorph Actuators ememtical Modeling, Finite Element Analysis, and erimental Verification of s-Coupled 2-DOF Tubular SPMSM sition Control Based on st Load-Side Acceleration trol Using Instantaneous trol Using Instantaneous to Observer for Industrial Robot  Session Ro SS4: Haptics and De Prof. Takahiro Endo Title  Title	Institute of Technology)  Naoki Motoi (Kobe University)  Kenta Seki (Nagoya Institute of Technology)  Tomoyuki Shimono (Yokohama National University)  Taiga Shinozaki (Nagaoka University of Technology)  Lunch	TT4-3	to Separate the Fuel Consumption and SOC Evaluation for HEVs  Reducing Power Consumption of Tilt-Wing eVTOL Aircraft During Hovering Flight in Crosswind  Proposal of Hand-Controlled EVS Including Turning Movements and Its Application	University)  Masatoshi Mizuno (University of Tokyo)  Shinsei Yoshikiyo (The		
Model Predictive Control Human Trajectory Model for Mobile Robot  serimental Verifications of Strain Signal-Based sition/Force Control in electric Bimorph Actuators tematical Modeling, Finite Element Analysis, and erimental Verification of s=Coupled 2-DOF Tubular SPMSM sition Control Based on st Load-Side Acceleration trol Using Instantaneous to Observer for Industrial Robot  Session Ro SS4: Haptics and Da Prof. Takahiro Endo Title	Kenta Seki (Nagoya Institute of Technology)  Tomoyuki Shimono (Yokohama National University)  Taiga Shinozaki (Nagaoka University of Technology)  Lunch	TT4-4	Tilt-Wing eVTOL Aircraft During Hovering Flight in Crosswind  Proposal of Hand-Controlled EVs Including Turning Movements and Its Application	Tokyo) Shinsei Yoshikiyo (The		
Strain Signal-Based sistion/Force Control in electric Bimorph Actuators the matical Modeling, Finite Element Analysis, and erimental Verification of s-Coupled 2-DOF Tubular SPMSM sitton Control Based on st Load-Side Acceleration trol Using Instantaneous the Observer for Industrial Robot  Session Rossid Strain Strain Strain Strain Control Based on trol Using Instantaneous See Observer for Industrial Robot  Session Rossid Haptics and Da Prof. Takahiro Endo Title	Technology)  Tomoyuki Shimono (Yokohama National University)  Taiga Shinozaki (Nagaoka University of Technology)  Lunch		EVs Including Turning Movements and Its Application			
Element Analysis, and erimental Verification of serimental Verification of	National University)  Taiga Shinozaki (Nagaoka University of Technology)  Lunch	Break				
st Load-Side Acceleration trol Using Instantaneous te Observer for Industrial Robot  Session Ro SS4: Haptics and Da Prof. Takahiro Endo Title  Title	I alga Shinozaki (Nagaoka University of Technology)  Lunch  ata Robotics	Break				
SS4: Haptics and Da Prof. Takahiro Endo Title  ormance Improvement of	om 1 ata Robotics	Break				
SS4: Haptics and Da Prof. Takahiro Endo Title  ormance Improvement of	ata Robotics					
Title formance Improvement of	Dr. Issei Takeuchi	Session Room 2 TT3: Control Theory and its Applications				
ormance Improvement of		Chair	Prof. Tadanao Zanma	Prof. Kazuaki Ito		
ent Description Method by cial Bee Colony Algorithm		TT3-1	Title  Frequency-Response-Based Controller Design for Robust Performance by Numerical Optimization	Speaker  Kohei Ito (Mie University)		
cabilization for Bilateral operation by Transmission Force Information Using uivalent Torsional Force Feedback	Yuki Nagatsu (Chuo University)	TT3-2	Controller Tuning with Estimated Closed-Loop Response Using Input/Output Data	Taiga Sakatoku (Mie University)		
cess Force Reduction in ral Control for Precise and Safe Operation	R.M. Maheshi Ruwanthika (Keio University)	TT3-3	Postural Control of 3D Inverted Pendulum Through Wearable- CMG Using the Hybrid Method	Akihiro Iizuka (Yokohama National University)		
Periodic-Position and riodic-Impedance Control ed on Periodic/Aperiodic turbance Compensation	Hisayoshi Muramatsu (Hiroshima University)	TT3-4	Optimizing Logistics Warehouse Operations with Agent-Based Modeling	So Fukai (Tokyo Institute of Technoology)		
cognitive Grasping and ulation of Unknown Object Control Grip Force Using tyber Physical System Approach						
nhancement of Haptic nsation on Dominant and on-Dominant Hands for ess Discrimination Task by Stochastic Resonance	Komi Chamnongthai (Kyoto University)					
Session Ro	Session Roo	0				
nced Motion Control for Hi Systems in the 21:	igh Value-Added Mechatronic		TT2: Actuation and its Applications			
Prof. Shota Yabui	Prof. Wataru Ohnishi	Chair	Prof. Yasutaka Fujimoto	Prof. Masato Koyama		
Title sal of Anti-Windup Method vin Drive Mass-Flow-Rate crol for Pneumatic Driving System		TT2-1	Title  Reducing Design Time of Permanent Magnet Volume Minimization for IPMSM for Automotive Applications Using Machine Learning	Speaker  Yuki Shimizu (Osaka Prefecture University)		
le Torsion Torque Control Fwo-Inertia Systems with klash Based on Duality of near Friction and Backlash	Juan Padron (Nagaoka University)	TT2-2	High Efficiency Motor Drive System by Voltage-Integral- Based Reference Tracking Modulator with Voltage Prediction	Yuto Kobayashi (Nagaoka University of Technology)		
ovement of Bridge Circuit Self-Sensing Actuation g Piezoelectric Elements	Jumpei Ohno (Nagoya Institute of Technology)	TT2-3	Analysis Results and MPPT Method Using SRG for Small Size Wind Power Generating System	Kakinuma Rin (Mie University)		
	Ilniversity)	TT2-4	Analysis of Force Generation in Microwave Motors	Masazumi Katoh (Yokohama National University)		
gn of Delay-Based Infinite ulse Response Filter for dic-Disturbance Observer		TT2-5	Characteristics of Muscle Contraction with Voltage and Frequency in Non-Invasive Functional Electrical Stimulation	Tatsuhiro Hamana (University o Tsukuba)		
S	elf-Sensing Actuation Piezoelectric Elements of Delay-Based Infinite se Response Filter for	of Delay-Based Infinite se Response Filter for	of Delay-Based Infinite se Response Filter for L-Disturbance Observer TT2-4  Jumple Office (Nagoya Institute of Technology)  TT2-3  Hiroki Tanaka (Hiroshima University)	ment of Bridge Circuit  alf-Sensing Actuation Piezoelectric Elements  of Delay-Based Infinite as Response Filter for -Disturbance Observer  TT2-3  Analysis Results and MPPT Method Using SRG for Small Size Wind Power Generating System  TT2-4  Analysis of Force Generating TT2-4  Analysis of Force Generation in Microwave Motors  TT2-5  Characteristics of Muscle Contraction with Voltage and Frequency in Non-Invasive		

		Cossian Pas	March 12th			Section Pa	om 2		
	Session Room 1  JIA to SAMCON2021				Session Room 2 P1: Sensing and actuation				
10:00-12:00	Chair	Prof. Hiroshi Fujimoto Title	Prof. Tomoyuki Shimono Speaker	Chair	Prof. Yutaka l	Jchimura	Prof. Hiroshi Igarashi		
		Model-Based Filter Design for Triple Skyhook Control of In- Wheel Motor Vehicles for Ride Comfort	Tomonori Suzuki (The University of Tokyo)						
		High-Precision Control for Functional Electrical Stimulation Utilizing a High-Resolution Encoder	Tomoya Kitamura (Saitama University)						
		Simultaneous Estimation of Contact Position and Tool Shape Using an Unscented Particle Filter	Kyo Kutsuzawa (Tohoku University)						
		Precise External Force Estimation of Helical Motors Using Magnetic-Attractive- Force Error Compensation	Masato Koyama (Mie University)						
		Trial Report of Localization for Visual Based Tracking System in Asteroid Flyby	Susumu Hara (Nagoya University)						
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12:00-13:00		Session Roc		preak		Session Ro			
	Chair	TT5: Robotics and N		Chair			I its applications		
	Chair	Prof. Daisuke Yashiro Title	Prof. Takashi Yoshioka Speaker	Chair	Prof. Tomoyuk	ı 31111110110	Prof. Kazuaki Ito		
13:00-15:00	TT5-1	Development of Real-Time Fault Prediction System Using Artificial Intelligence	Tetsuya Ojiro (Kyushu Sangyo University)						
	TT5-2	Tracked Vehicle Velocity Estimation by Disturbance Observer and Machine Learning, and Its Application to Driving Force Control for Slippage Suppression	Hiroaki Kuwahara (Keio University)						
	TT5-3	An Anti-Windup Control with Adaptive Saturation Function for Two-Wheeled Inverted Pendulum Wheelchair	Keinosuke Yokota (Keio University)						
	TT5-4	Control of Humanoid Robots Using Divided Coordinate Transformations	Shinnosuke Kato (Mie University)						
	TT5-5	Design of a Gain-Scheduled Rotor Thrust Controller Using Wind Velocity and Rotor Angular Velocity	Yuki Kato (Mie University)						
	TT5-6	Control Method for Large-Sized Gantry Type Linear Motor Slider with High Feedback Gain	Tetsuya Ojiro (Kyushu Sangyo University)						
15:00-15:30	Br Session Room 1				eak Session Room 2				
		TT6: Human Int	eraction			obotics and n	nechatronics		
15:30-17:30	Chair	Prof. Sho Sakaino Title	Prof. Takahiro Nozaki Speaker	Chair	Prof. Yasutaka	Fujimoto	Prof. Yuki Nagatsu		
	TT6-1	Estimation Ankle Joint Exertion Torque Using Electromyogram and Ankle/Knee Joint Angles	Yuma Nagaoka (Mie University)						
	TT6-2	Estimation of Ankle Torque in Passive Plantar-Dorsiflexion Using Ankle/Knee Angle	Kosuke Kitabata (Mie University)						
	TT6-3	Estimation of Dynamic Muscle Force Characteristics Based on Joint Torque	Mayu Miyake (Yokohama National University)						
	TT6-4	Depth Camera-Based Lifting Robot Navigation in Environments with Different Lighting Conditions	Tran Dung (Hosei University)						