

**ICCAS 2023 Paper List (Ver. 2023.09.20)**

Session No.	Date	Time	Type	Paper No.	Paper Title	Author(s)
TuA2-1	Oct. 17 (Tue)	13:00-13:15	Oral	P00238	Generalized $\mathcal{H}_2$ Optimal Disturbance Observer for Linear Time-Invariant Systems	Mr. Tae Wan Kim, Prof. Jung Hoon Kim
TuA2-2	Oct. 17 (Tue)	13:15-13:30	Oral	P00282	Stabilization of Markovian jump systems with time-varying delay using a nonlinear disturbance observer-based method	Dr. Kaviarasan Boomipalagan, Mr. Yonggwon Lee, Prof. Ohmin Kwon
TuA2-3	Oct. 17 (Tue)	13:30-13:45	Oral	P00357	Design of high-gain observer based internal model disturbance observer for simultaneously achieving state estimation and	Graduate Student Minjeong Kim, Prof. Youngjun Joo
TuA2-4	Oct. 17 (Tue)	13:45-14:00	Oral	P00440	Global Feedback Control for Nonlinear Affine Systems Defined on Time-Varying Parameterized Manifolds	Dr. Yoshiro Fukui
TuA3-1	Oct. 17 (Tue)	13:00-13:15	Oral	P00123	Preliminary Design of a Compact Robotic Finger with Continuously Variable Active Transmission	Mr. Sung Ho Chung, Mr. Eugene Sohn, Prof. Seokhwan Jeong
TuA3-2	Oct. 17 (Tue)	13:15-13:30	Oral	P00191	Twisted String Actuator Mechanism with Adjustable Offset of Strings for Extension of Stiffness Range	Mr. Dongcheol Shin, Prof. Brian Byunghyun Kang, Prof. Wansoo Kim
TuA3-3	Oct. 17 (Tue)	13:30-13:45	Oral	P00224	Development of Vision Based Feature Extracted Grasping Intention Detection Model for Wearable Robotic Hand	Mr. Gyeol Jeong, Prof. Kyujin Cho, Graduate Student Kyu Bum Kim
TuA3-4	Oct. 17 (Tue)	13:45-14:00	Oral	P00235	Enhancing Walking Ability in Hemiparetic Patients: A Modular Soft Exosuit for Ankle Dorsiflexion	Ms. Gayoung Yang, Ms. Sangyun Hwang, Prof. Brian Byunghyun Kang
TuA3-5	Oct. 17 (Tue)	14:00-14:15	Oral	P00295	Learning-based Object Size Estimation for Soft Wearable Robot Glove	Mr. Seungwon Yang, Mr. Youchan Choi, Ms. Daeun Kim, Prof. Brian Byunghyun Kang
TuA3-6	Oct. 17 (Tue)	14:15-14:30	Oral	P00385	Soft Wearable Robot for Hallux Valgus Rehabilitation	Ms. Hyeju Yoo, Prof. Kyujin Cho
TuB2-1	Oct. 17 (Tue)	14:50-15:05	Oral	P00048	STP Method for Solving the Minimal Norm Centrosymmetric Solutions of $MX-XN=GY+R$	Ms. Weihua Chen, Prof. Caiqin Song
TuB2-2	Oct. 17 (Tue)	15:05-15:20	Oral	P00052	Data-Driven Design for Model-Referenced Model-Free Controller	Dr. Shuichi Yahagi, Prof. Itsuro Kajiwara
TuB2-3	Oct. 17 (Tue)	15:20-15:35	Oral	P00177	Comparison of Different Gaussian Process Models and Applications in Model Predictive Control	Mr. Florian Diepers, Mr. Dominik Polke, Prof. Elmar Ahle, Prof. Dirk Söfker
TuB2-4	Oct. 17 (Tue)	15:35-15:50	Oral	P00207	Equivalent Transformations in the Data-Informativity Framework and Its Applications: Homological Algebraic Approach	Mr. Yuki Tanaka, Prof. Osamu Kaneko
TuB2-5	Oct. 17 (Tue)	15:50-16:05	Oral	P00280	On set-invariance for nonlinear output-feedback control systems: a modified control barrier function	Mr. Hyung Tae Choi, Prof. Jung Hoon Kim
TuB2-6	Oct. 17 (Tue)	16:05-16:20	Oral	P00369	Invariance Guarantees using Continuously Parametrized Control Barrier Functions	Mr. Inkyu Jang, Prof. H. Jin Kim
TuB3-1	Oct. 17 (Tue)	14:50-15:05	Oral	P00186	Trajectory Generation Method based on DDP for 6-DOF Collaborative Robot	Mr. Jaesoon Lee, Prof. Baek-Kyu Cho
TuB3-2	Oct. 17 (Tue)	15:05-15:20	Oral	P00329	Backstepping based Dynamic Surface Control Scheme for Application to Path Following of ROV for Underwater Glider	Mr. Munhaeng Lee, Mr. Sungjae Kim, Prof. Jinho Suh
TuB3-3	Oct. 17 (Tue)	15:20-15:35	Oral	P00359	Research on Safety standrad for mobile manipulator systems	Mr. Se-Jin Kim, Mr. Hyung-Taek Baek, Mr. Min-Seop Song
TuB3-4	Oct. 17 (Tue)	15:35-15:50	Oral	P00365	Real-time automatic collision detection by using TDE-based impulse estimation and relative entropy	Dr. Byeonggi Yu, Dr. Junyoung Lee, Dr. Maolin Jin
TuB3-5	Oct. 17 (Tue)	15:50-16:05	Oral	P00424	Artificial Potential Field Approach using Virtual Impedance for Motion Planning of Mobile Manipulator	Mr. Jung Hyun Choi, Mr. Jong Hoon Park, Mr. Ui Hun Sagong, Prof. Myun Joong Hwang
TuB3-6	Oct. 17 (Tue)	16:05-16:20	Oral	P00475	Development of Small-scale Pneumatic Pump Module for Hybrid Gripper with Jamming Module	Mr. Myeongjin Kim, Graduate Student Jingon Yoon, Graduate Student Donghyun Kim, Prof. Dongwon Yun
TuC2-1	Oct. 17 (Tue)	16:40-16:55	Oral	P00018	Event-Triggered Distributed State Estimation for Nonlinear Reference Systems Under Markovian Switching Topologies	Mr. Zitao Chen, Graduate Student Jiawei Yan, Dr. Kairui Chen, Dr. Xuejing Lan, Prof. Junwei Wang

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Session No.	Date	Time	Type	Paper No.	Paper Title	Author(s)
TuC2-2	Oct. 17 (Tue)	16:55-17:10	Oral	P00284	Fault Estimation and Fault-Tolerant Control for Networked Control Systems with Packet Dropouts	Dr. Ramalingam Sakthivel, Mr. Yeongjae Kim, Dr. Ramasamy Kavikumar, Prof. Ohmin Kwon
TuC2-3	Oct. 17 (Tue)	17:10-17:25	Oral	P00314	UDE-based non-fragile control design for interval-type-2 fuzzy systems	Dr. Palanisamy Selvaraj, Dr. Seung-Hoon Lee, Prof. Oh-Min Kwon
TuC2-4	Oct. 17 (Tue)	17:25-17:40	Oral	P00342	Approximation based $H^\infty$ control of linear systems with state delays	Prof. Lorinc Marton, Dr. Aron Feher
TuC2-5	Oct. 17 (Tue)	17:40-17:55	Oral	P00394	Bipartite consensus for parabolic PDE-based multi-agent systems with input time delay	Dr. Arumugam Parivallal, Prof. Yoon Mo Jung, Prof. Sangwoon Yun
TuC2-6	Oct. 17 (Tue)	17:55-18:10	Oral	P00474	Quadratic Stabilization and L2 Performance Design of Switched Uncertain Nonlinear Systems	Prof. Yufang Chang, Prof. Guisheng Zhai, Prof. Bo Fu
TuC3-1	Oct. 17 (Tue)	16:40-16:55	Oral	P00049	Comparison of Neural Network Architectures for the Detection of Clutter in Automotive Radar Data	Mr. Johannes Kopp, Dr. Dominik Kellner, Mr. Aldi Piroli, Mr. Vinzenz Dallabetta, Prof. Klaus Dietmayer
TuC3-2	Oct. 17 (Tue)	16:55-17:10	Oral	P00255	Performance Analysis of NIA Artificial Intelligence Training Data for 2D Object Detection and 2D Semantic Segmentation	Mr. Youn-Ho Choi, Prof. Seok-Cheol Kee
TuC3-3	Oct. 17 (Tue)	17:10-17:25	Oral	P00290	Safe Teleoperation of the Vehicle through Delay Compensation Combined Speed and Separation Monitoring with Potential Field	Dr. Teresa Thalluri, Dr. Eugene Kim, Dr. Hyunrok Cha
TuC3-4	Oct. 17 (Tue)	17:25-17:40	Oral	P00398	Robust lane detection in various environments for lane following assist	Mr. Sumin Kim, Ms. Jiwon Heo, Prof. Yeongbae Hwang
TuC3-5	Oct. 17 (Tue)	17:40-17:55	Oral	P00437	Visual Localization of Intersections on Autonomous Vehicles Based on HD Map	Ms. Bizza Shafwah Utsula, Prof. Yul Yunazwin Nazaruddin, Graduate Student Nadana Ayzah Azis, Graduate Student Muhammad Dhany
WA1-1	Oct. 18 (Wed)	09:00-09:15	Oral	P00109	Simulator Design Using a General Purpose PC and Off-The-Shelf Interface Boards for GNSS/INS Integrated Navigation	Mr. Jae Hoon Son, Ms. Yeong Hye Lee, Mr. Junwoo Jung, Mr. Yongtaek Hwang, Mr. Jiwoo Hwang, Mr. Minsu Kim, Mr. Gyeongmin Park, Prof.
WA1-2	Oct. 18 (Wed)	09:15-09:30	Oral	P00148	Normalizing In-orbit Anomalies and Retaining Stability Using Preferential-Kalman Filtering for Autonomous Small Satellite	Mr. Mohammed Irfan Rashed
WA1-3	Oct. 18 (Wed)	09:30-09:45	Oral	P00155	Comparing Network RTK and Own RTK Base Station for Lateral Tracking in GNSS-Based Navigation: An Autonomous Golf Cart	Mr. Surayuth Duenkwang, Ms. Chutimon Ketkarn, Ms. Soravee Wanichphol, Dr. Benjamas Panomruttanarug
WA1-4	Oct. 18 (Wed)	09:45-10:00	Oral	P00250	PanoNetVLAD: Visual Loop Closure Detection in Continuous Space Represented With Panoramic View Using Multiple	Mr. Sungjae Shin, Ms. Yeeun Kim, Mr. Byeongho Yu, Mr. Eungchang Mason Lee, Mr. Dong-Uk Seo, Prof. Hyun Myung
WA1-5	Oct. 18 (Wed)	10:00-10:15	Oral	P00298	Tight Integration of Inertial and Terrain-referenced Navigation under Biased Odometry and Measurements via Factor Graph	Mr. Junwoo Park, Prof. Hyochoong Bang
WA1-6	Oct. 18 (Wed)	10:15-10:30	Oral	P00362	BIG-STEP: Better Initialized State Estimator for Legged Robots with Fast and Robust Ground Segmentation	Mr. Seunggyu Song, Mr. Byeongho Yu, Mr. Minho Oh, Prof. Hyun Myung
WA2-1	Oct. 18 (Wed)	09:00-09:15	Oral	P00124	Modeling, simulation and performance comparison of variable cycle engine based on object-oriented	Mr. Shiping Ma, Prof. Xiaobo Zhang, Prof. Zhanxue Wang, Mr. Tianmu Jiang
WA2-2	Oct. 18 (Wed)	09:15-09:30	Oral	P00131	Chaos Suppression Occurred in Spur Gear Mechanism by Reset Control	Dr. Masataka Iwai
WA2-3	Oct. 18 (Wed)	09:30-09:45	Oral	P00393	Arduino-based Automatic transfer switching charger for Lithium-polymer Batteries	Mr. Adrian Ritz Mabuna Chong, Mr. Vince John Bilog Casangcapan, Dr. Febus Reidj G. Cruz
WA2-4	Oct. 18 (Wed)	09:45-10:00	Oral	P00396	PLL dynamics integrated Model Predictive current control for Grid connected inverter	Ms. Sivadarshini Allimuthu, Prof. Young Il Lee
WA2-5	Oct. 18 (Wed)	10:00-10:15	Oral	P00453	The PIDmn Controller Tuning for Temperature and % RH Control in a Chamber Using Simulink Desktop Real-Time	Ms. Nuengsatree Boonseng, Dr. Arjin Numsomran, Dr. Vittaya Tipsuwanporn, Dr. Jutarut Chaoraingern
WA2-6	Oct. 18 (Wed)	10:15-10:30	Oral	P00461	LQR Control Method for Planar Stage using Linear Parameter Varying Approach	Mr. Hojin Lee, Prof. Youngwoo Lee, Prof. Wonhee Kim
WA2-7	Oct. 18 (Wed)	10:30-10:45	Oral	P00171	Finite-time stability of switched singular systems based on time-varying Lyapunov function	Ms. Mei Meng, Prof. Yuangong Sun

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WA3-1	Oct. 18 (Wed)	09:00-09:15	Oral	P00158	Advancements in Electro-Optical and Infrared Maritime Detection: A Survey	Ms. Changyeol Jeong, Mr. Jeonghoon Park, Ms. Dayeong Kim, Mr. Seunghan Kim, Mr. Jeongseop Seo, Prof. Sungho Kim
WA3-2	Oct. 18 (Wed)	09:15-09:30	Oral	P00217	Object Detection using Reinforcement Learning	Graduate Student Keoung Hun Choi, Prof. Jong-Eun Ha
WA3-3	Oct. 18 (Wed)	09:30-09:45	Oral	P00219	DETR with Additional Object Instance-Specific Features for Encoder	Mr. Wang Yao, Prof. Jong-Eun Ha
WA3-4	Oct. 18 (Wed)	09:45-10:00	Oral	P00278	Adaptation of Synthetic SAR to Measured SAR using Complex Value Conditional GAN	Mr. Minjun Kim, Prof. Sungho Kim
WA3-5	Oct. 18 (Wed)	10:00-10:15	Oral	P00302	Face Image-Based BVP Estimation Using a 2D Camera	Ms. Seongryeong Lee, Prof. Sungho Kim
WA3-6	Oct. 18 (Wed)	10:15-10:30	Oral	P00408	Analysis of technique characteristics based on YOLOv5 for real-time small object detection	Ms. Yeonha Shin, Prof. Sungho Kim
WA3-7	Oct. 18 (Wed)	10:30-10:45	Oral	P00411	Survey and Performance Analysis on Point Cloud Classification Models	Ms. Chaitali Bhattacharyya, Prof. Sungho Kim
WA4-1	Oct. 18 (Wed)	09:00-09:15	Oral	P00316	Task Space Outer-Loop Integrated DOB-Based Admittance Control of An Industrial Robot	Dr. Kangwagye Samuel, Dr. Kevin Haninger, Prof. Sehoon Oh
WA4-2	Oct. 18 (Wed)	09:15-09:30	Oral	P00319	Intelligent Lower Limb Blood Circulation System for Long-Sitting People	Mr. Donghyun Kwon, Mr. Hyeoncheol Kim, Prof. Jungsu Choi
WA4-3	Oct. 18 (Wed)	09:30-09:45	Oral	P00330	Robust Impedance-based Position Control For Safe Human-Robot Interaction	Mr. Wonbum Yun, Prof. Sehoon Oh
WA4-4	Oct. 18 (Wed)	09:45-10:00	Oral	P00358	Disturbance Observer-based Torque Control of Coaxial Magnetic Gear and Tool Changing Application	Mr. Hangeol Song, Mr. Edgar Lee, Prof. Seokhwan Jeong
WA4-5	Oct. 18 (Wed)	10:00-10:15	Oral	P00447	A Novel Winding Approach with Disturbance Observer	Mr. Kwanho Yu, Ms. Yejin Shin, Prof. Jungsu Choi
WA4-6	Oct. 18 (Wed)	10:15-10:30	Oral	P00465	Interaction Control for Isometric, Isotonic, and Isokinetic Exercise using Series Elastic Actuator	Mr. Seokho Yang, Mr. Jaegeun Jang, Prof. Chan Lee
WA5-1	Oct. 18 (Wed)	09:30-09:45	Oral	P00374	Exponential Synchronization of Heterogeneous Multi-agent Systems via Linear-signum-type Diffusive Coupling: Blended	Mr. Jeong Mo Seong, Graduate Student Donggil Lee, Prof. Hyungbo Shim
WA5-2	Oct. 18 (Wed)	09:45-10:00	Oral	P00368	MILP and CBBA-based Dynamic Assignment for Multi-USV Defensive Pursuit	Mr. Min Kyu Shin, Prof. Han-Lim Choi
WA5-3	Oct. 18 (Wed)	10:00-10:15	Oral	P00300	Safety-Critical Optimal Control Using Control Barrier Function with Selective Relaxation Method	Mr. Yeongho Song, Dr. Ngo Phong Nguyen, Dr. Hyondong Oh
WA5-4	Oct. 18 (Wed)	10:15-10:30	Oral	P00199	Decentralized Trajectory Planning for Quadrotor Swarm with Goal Convergence Guarantee	Mr. Jungwon Park, Prof. H. Jin Kim
WA6-1	Oct. 18 (Wed)	09:00-09:15	Oral	P00151	Design and Implementation of an OPC UA-based Cloud System for the Management of Distributed Microgrid Networks	Dr. Changdae Lee, Dr. Junghwan Im, Prof. Hyukyeon Kwon, Prof. Young Il Lee
WA6-2	Oct. 18 (Wed)	09:15-09:30	Oral	P00169	Improved Rotor Speed Strategy of a DFIG for Suppressing Second Frequency Drop	Prof. Gangui Yan, Dr. Yanfeng Ge, Dr. Yang De Jian, Dr. Mingyi Sun, Ms. Xinwei Li, Mr. Xin Wang
WA6-3	Oct. 18 (Wed)	09:30-09:45	Oral	P00170	Adaptive Frequency-Regualtion Strategy of a DFIG for Enhancing Frequency Support Capability	Dr. Mingyi Sun, Ms. Xinwei Li, Dr. Dejian Yang, Mr. Lin Yue, Mr. Xin Wang
WA6-4	Oct. 18 (Wed)	09:45-10:00	Oral	P00183	Constrained Variational Policy Optimization for Emergency Load Shedding of Power Systems	Mr. Zhang Haotian, Mr. Sun Xinfeng, Prof. Moon Jun, Dr. Lee Myoung Hoon
WA6-5	Oct. 18 (Wed)	10:00-10:15	Oral	P00373	Voltage and Frequency Control in a Multi-Area Power System with Integrated PV and BESS using Tie-Line Synchronization	Ms. Pornnapat Amornsriarakul, Mr. Norranat Songsriboonsit, Dr. Itthisek Nilkhamhang
WA6-6	Oct. 18 (Wed)	10:15-10:30	Oral	P00407	Real-time Reconfiguration of Networked Microgrids for Frequency Regulation using Optimal Switching Control	Mr. Donghyun Lee, Prof. Jaepil Ban

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WA7-1	Oct. 18 (Wed)	09:00-09:15	Oral	P00204	Underwater Robot Navigation through Compensation of Sensor Misalignment in Non-linear Space	Mr. Da Bin Jeong, Prof. Woong Choi, Prof. Nak Yong Ko
WA7-2	Oct. 18 (Wed)	09:15-09:30	Oral	P00241	Developing an experimental system for investigating texture image recognition mechanisms in virtual reality	Mr. Hyokyeom Kim, Mr. Hyunsoo Shin, Mr. Seungmin Jeon, Prof. Liang Li, Prof. Akira Asano, Prof. Chie Muraki Asano, Prof. Xiaoying Guo, Prof.
WA7-3	Oct. 18 (Wed)	09:30-09:45	Oral	P00286	Localization Algorithms for Drones in a Wireless Communication Environment with Presence of Data Missing.	Ms. Sin Kim, Mr. Sung Shin, Prof. Nak Yong Ko, Prof. Sung Hyun You
WA7-4	Oct. 18 (Wed)	09:45-10:00	Oral	P00292	Integral Sliding Mode Controller Design for Trajectory Following of a Six Degrees Freedom Underwater Vehicle	Mr. Eyasu Derbew Tegen, Prof. Nak Yong Ko
WA7-5	Oct. 18 (Wed)	10:00-10:15	Oral	P00304	Deep-sea Organisms Classification Using Vision Transformer	Prof. Jiyoun Moon
WA8-1	Oct. 18 (Wed)	09:00-09:15	Oral	P00185	Data-Driven Disturbance Compensation for DC Motors	Graduate Student Jaeho Lee, Prof. Yongsoon Eun
WA8-2	Oct. 18 (Wed)	09:15-09:30	Oral	P00187	Data-driven Fault Detection and Identification of Nonlinear Systems using Weighted Window Extended Dynamic Mode	Mr. Jayden Dongwoo Lee, Mr. Lamsu Kim, Mr. Hosun Lee, Prof. Hyochoong Bang
WA8-3	Oct. 18 (Wed)	09:30-09:45	Oral	P00196	Reinforcement Learning Approach to Velocity and Position Control of Metro Trains	Graduate Student Kyungbae Lee, Graduate Student Seungyeop Lee, Graduate Student Seunghyeon Kim, Prof. Yongsoon Eun
WA8-4	Oct. 18 (Wed)	09:45-10:00	Oral	P00270	Data-Driven Inverse Dynamics of Single-Input Single-Output Linear System	Dr. Juwon Lee, Prof. Juhoon Back
WA8-5	Oct. 18 (Wed)	10:00-10:15	Oral	P00318	Sparse Bayesian Network-based Disturbance Observer for Policy-based Reinforcement Learning	Mr. Hyeonbeen Park
WA8-6	Oct. 18 (Wed)	10:15-10:30	Oral	P00321	Data Dependency of DeePC Performance: Case Study with Metro Trains	Graduate Student Seunghyeon Kim, Prof. Yongsoon Eun
WB1-1	Oct. 18 (Wed)	13:00-13:15	Oral	P00051	Development of Cable-Driven Parallel Robot for 8 m High-Racks Logistics Automation System	Mr. Min-Cheol Kim, Prof. Chang-Sei Kim
WB1-2	Oct. 18 (Wed)	13:15-13:30	Oral	P00122	Development of Disturbance Observer-based Sliding Mode Controller for Multiple Electromagnets Actuator	Mr. Han-Sol Lee, Mr. Yeongoh Ko, Prof. Chang-Sei Kim
WB1-3	Oct. 18 (Wed)	13:30-13:45	Oral	P00370	Simulation-driven Motion Control of a One-Legged Hopping Robot	Mr. Sejeong Kim, Mr. Myungjin Jung, Mr. Hyunmin Choi, Mr. Min-Cheol Kim, Prof. Chang-Sei Kim
WB1-4	Oct. 18 (Wed)	13:45-14:00	Oral	P00420	Field Evaluation of a Path Planning and Coordination Algorithm for Heterogeneous Tasks of Multiple UGVs in Agriculture	Mr. Yuseung Jo, Prof. Hyoung Il Son
WB1-5	Oct. 18 (Wed)	14:00-14:15	Oral	P00423	Computer Vision-based Robust Visual Servoing to Detect Oscillating Pedicel in Harvesting Robot	Mr. Yonghyun Park, Mr. Changjo Kim, Prof. Hyoung Il Son
WB1-6	Oct. 18 (Wed)	14:15-14:30	Oral	P00463	Automatic Detection of Patient's Posture to Determine an Ultrasound Probe Location for Echocardiography using a 3D	Mr. Yang Yang, Mr. Siheon An, Prof. Seong Young Ko
WB2-1	Oct. 18 (Wed)	13:00-13:15	Oral	P00019	Comparison of Disturbance Observer and recent Methods for 4 Wheel Independent Steering State Space Model	Dr. Heonjong Yoo, Prof. Seong-Gon Choi
WB2-2	Oct. 18 (Wed)	13:15-13:30	Oral	P00193	Disturbance Observer-based Torque Vectoring Control for EVs with Model Uncertainty	Mr. Seunghyeok Baek, Mr. Bumsu Kim, Ms. Eunyoung Ko, Dr. Jinsung Kim, Mr. Deawoong Hwang, Prof. Juhoon Back
WB2-3	Oct. 18 (Wed)	13:30-13:45	Oral	P00247	Modeling of Crumple Zone for Vehicle Crash Simulation using Multi-Layers Kelvin-Voigt Model with Non-Linear Spring	Prof. Khisbullah Hudha, Dr. Zulkiffli Abd Kadir, Dr. Noor Hafizah Amer, Graduate Student Alawiyah Hasanah Alawi, Graduate Student Amrina
WB2-4	Oct. 18 (Wed)	13:45-14:00	Oral	P00333	Longitudinal Tire Force Estimation of a Robotic Vehicle with Articulated Suspension: An Experimental Model-Based Approach	Dr. Hussein Fouad Mohamed Ali, Graduate Student Yurak Lim, Prof. Youngshik Kim
WB2-5	Oct. 18 (Wed)	14:00-14:15	Oral	P00435	Constrained and Unconstrained Non-Linear Control RTGC with DC Motor Based on Sliding Mode Controller	Mr. Cristian Mp Napitupulu, Mr. Steven Bandong, Prof. Yul Yunazwin Nazaruddin, Dr. Parsaulian Ishaya Siregar
WB2-6	Oct. 18 (Wed)	14:15-14:30	Oral	P00457	Anti-Swing Control in an Underactuated Dual Overhead Crane	Ms. Shivani Raj, Dr. Sandeep Reddy Basireddy

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WB2-7	Oct. 18 (Wed)	14:30-14:45	Oral	P00064	Stability and stabilization of discrete-time switched delay systems based on a switching time-variant Lyapunov-Krasovskii functional	Ms. Na Jiang, Dr. Yuangong Sun
WB3-1	Oct. 18 (Wed)	13:00-13:15	Oral	P00412	A study on calibration of a speedometer using GNSS Simulator	Prof. Wangheon Lee, Prof. Kwang-Suk Oh
WB3-2	Oct. 18 (Wed)	13:15-13:30	Oral	P00416	Comparative Analysis of IR-IR Image Matching Applying the Deep Learning-based Template Matching Techniques	Mr. Seungeon Lee, Prof. Sungho Kim
WB3-3	Oct. 18 (Wed)	13:30-13:45	Oral	P00427	Technology Trend for Compression of Deep Learning Model Algorithm	Ms. Saebyeol Do, Prof. Kim Sungho
WB3-4	Oct. 18 (Wed)	13:45-14:00	Oral	P00431	One-stage Infrared Ships Detection with Attention Mechanism	Ms. Indah Monisa Firdiantika, Prof. Sungho Kim
WB3-5	Oct. 18 (Wed)	14:00-14:15	Oral	P00469	A study on development of multicopter with double propeller	Prof. Jaejin Jung
WB3-6	Oct. 18 (Wed)	14:15-14:30	Oral	P00481	Development of an R/S/T Terminal Recognition System for Electrical Distribution Panel Operating Robots Using Depth	Mr. Choonggun Kim, Mr. Hanwoo Lee, Mr. Myoungchul Lee, Mr. Soan Choi, Prof. Doyoung Jeon
WB3-7	Oct. 18 (Wed)	14:30-14:45	Oral	P00481	Development of an R/S/T Terminal Recognition System for Electrical Distribution Panel Operating Robots Using Depth	Mr. Choonggun Kim, Mr. Hanwoo Lee, Mr. Myoungchul Lee, Mr. Soan Choi, Prof. Doyoung Jeon
WB5-1	Oct. 18 (Wed)	14:00-14:15	Oral	P00125	Parallel Operation of Electric Motors with Nonidentical Power Ratings	Prof. Kwang-Kyo Oh
WB5-2	Oct. 18 (Wed)	14:15-14:30	Oral	P00112	An $H^\infty$ Robust Consensus Control for Distributed Multi-Agent Systems Characterized by Uncertain Time-Varying Topologies	Mr. Junghoon Kim, Mr. Dohyeok Kwak, Prof. Jung Hoon Kim
WB6-1	Oct. 18 (Wed)	13:00-13:15	Oral	P00076	Stiffness and Vibration Resistance Analysis of Isotropic Stewart Platform (ISP) and Common Stewart Platform (CSP)	Ms. Aisulu Tileukulova, Graduate Student Perizat Rakhmetova, Dr. Azamat Yeshmukhametov, Prof. Koichi Koganezawa
WB6-2	Oct. 18 (Wed)	13:15-13:30	Oral	P00121	Dimensionally Homogeneous Jacobian using Extended Selection Matrix for Performance Evaluation and Optimization of Parallel	Dr. Hassen Nigatu Sirag, Dr. Doik Kim
WB6-3	Oct. 18 (Wed)	13:30-13:45	Oral	P00198	Long Short-Term Memory (LSTM) Estimation of Chair Reaction Force during Sit-to-Stand Movements	Mr. Naoto Otomori, Dr. Asuka Takai
WB6-4	Oct. 18 (Wed)	13:45-14:00	Oral	P00216	Independent Speed Controller for Integrated Motion Control of Tracked Vehicle with In-Track Motors	Ms. Noor Amira Ilyanie Ruslan, Dr. Noor Hafizah Amer, Prof. Khisbullah Hudha, Dr. Zulkiffii Abdul Kadir, Prof. Saiddi Ali Firdau Mohamed Ishak,
WB6-5	Oct. 18 (Wed)	14:00-14:15	Oral	P00345	Implementation of the Electronic and Communication System for a Snake-like Modular Robot	Mr. Hernando Leon-Rodriguez, Mr. Santiago Melo Guayacan, Mr. Santiago Nougues
WB6-6	Oct. 18 (Wed)	14:15-14:30	Oral	P00346	Modelling and Design a Self-balancing Dual-wheeled Robot with PID Control	Mr. Hernando Leon-Rodriguez, Ms. Daniela Garzón Cuadros, Mr. Santiago Melo Guayacan, Mr. Santiago Nougues
WB7-1	Oct. 18 (Wed)	13:00-13:15	Oral	P00167	Temporal Change Detection of Battery Anode Slurry Flow Data Using CNN Classifier and Investigation of Significance through	Ms. Hyejung Oh, Mr. Junseop Shin, Mr. Hyunjoon Jung, Prof. Jaewook Nam, Prof. Jong Min Lee
WB7-2	Oct. 18 (Wed)	13:15-13:30	Oral	P00234	Design Condition for Achieving Zero Steady-state Tracking Error in Offset-free MPC with Moving Horizon Estimator	Mr. Wonhyeok Choi, Dr. Sang Hwan Hwan Son, Prof. Jong Min Min Lee
WB7-3	Oct. 18 (Wed)	13:30-13:45	Oral	P00239	Enhancing Electric Vehicle Air Conditioning Systems with Model Predictive Control for Optimal Refrigerant Cycle Performance	Ms. Jisung Byun, Ms. Hyein Jung, Mr. Jaewoong Kim, Mr. Se-Kyu Oh, Prof. Jong Min Lee
WB7-4	Oct. 18 (Wed)	13:45-14:00	Oral	P00348	Adsorbent Selection for Biogas Upgrading PSA process: A Novel Isotherm Fitting Algorithm for Efficient Connection of Molecular	Graduate Student Nahyeon An, Prof. Junghwan Kim, Prof. Seongbin Ga
WB8-1	Oct. 18 (Wed)	13:00-13:15	Oral	P00032	Quadrotor Attitude Control Using Adaptive Novel Super-Twisting Algorithm	Mr. Hyunchang Kim, Mr. Hyeongki Ahn, Prof. Kwanho You
WB8-2	Oct. 18 (Wed)	13:15-13:30	Oral	P00089	DDPG-Based PID Optimal Controller for Position and Sway Angle of RTGC	Mr. Steven Bandong, Prof. Yul Yunazwin Nazaruddin
WB8-3	Oct. 18 (Wed)	13:30-13:45	Oral	P00098	Trajectory tracking control of reconfigurable space manipulator	Mr. Ying Tian, Mr. Ying-Hong Jia

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WB8-4	Oct. 18 (Wed)	13:45-14:00	Oral	P00120	Adaptive Neural Nonlinear Dynamic Inversion Control of Aircraft in Icing Conditions	Mr. Amin Rabiei Beheshti, Prof. Yoonsoo Kim, Prof. Rho Shin Myong
WB8-5	Oct. 18 (Wed)	14:00-14:15	Oral	P00287	The Koopman-based Reinforcement Learning Environment for the Quadrotor Control	Ms. Yuna Oh, Prof. Jun Moon
WB8-6	Oct. 18 (Wed)	14:15-14:30	Oral	P00460	EID Observer based Reinforcement Learning Control for a Rotary Inverted Pendulum	Ms. Jiwon Seo, Mr. Sesun You, Mr. Kwankyun Byeon, Prof. Wonhee Kim
WC2-1	Oct. 18 (Wed)	16:00-16:15	Oral	P00003	The Design of A Reference Model-Based Proportional-Integral-Derivative Controller with the Generalized Derivative	Dr. Gengjin Shi, Graduate Student Chengbo Dai, Prof. Donghai Li, Prof. Yanjun Ding
WC2-2	Oct. 18 (Wed)	16:15-16:30	Oral	P00126	Control Law Design for the STOVL Aircraft Engine Using Variable Replacement Method	Mr. Tianmu Jiang, Dr. Xiaobo Zhang, Prof. Zhanxue Wang, Dr. Yongquan Liu, Mr. Shiping Ma
WC2-3	Oct. 18 (Wed)	16:30-16:45	Oral	P00200	Transfer Speed Optimization of Advanced Automated Material Handling Systems in Serial Production Lines	Graduate Student Seunghyeon Kim, Prof. Kyung-Joon Park, Prof. Yongsoon Eun
WC2-4	Oct. 18 (Wed)	16:45-17:00	Oral	P00322	Numerical Predication of Rotor-Seal System by an Interpolation Database Method	Dr. Xiang Zhang, Prof. Yeyin Xu, Graduate Student Guanghe Huo, Dr. Renwei Che, Prof. Yinghou Jiao
WC2-5	Oct. 18 (Wed)	17:00-17:15	Oral	P00434	Power Consumption of Linear and Non-linear Filters on Multi-core Architecture By Using AVX and OpenMP	Dr. Nwe Zin Oo
WC2-6	Oct. 18 (Wed)	17:15-17:30	Oral	P00452	Event-based LQR Control for Rotary Inverted Pendulum Using Wireless Networked Control System	Ms. Baitong Thongsakul, Dr. Arjin Numsomran, Dr. Vittaya Tipsuwanporn, Dr. Jutarut Chaoraingern
WC3-1	Oct. 18 (Wed)	16:00-16:15	Oral	P00014	Design and development of an in-pipe mobile robot for pipeline inspection with AI defect detection system	Dr. Azamat Nurlanovich Yeshmukhametov, Mr. Azamat Kenzhekhan, Ms. Akbayan Bakytzhannova, Mr. Sultan Omirbayev, Mr. Yelnur Tuiubayev,
WC3-2	Oct. 18 (Wed)	16:15-16:30	Oral	P00201	Attak Detection in RSU-OBU Communication using Deep Neural Network	Graduate Student Youngwoo An, Prof. Yongsoon Eun
WC3-3	Oct. 18 (Wed)	16:30-16:45	Oral	P00296	PIGD-TL: Physics-informed Generative Dynamics with Transfer Learning	Mr. Minseok Jang, Mr. Jeongseok Hyun, Prof. Tuan Anh Nguyen, Prof. Jae-Woo Lee
WC3-4	Oct. 18 (Wed)	16:45-17:00	Oral	P00340	Comparative Performance of CNN and Transformer Architectures in Infrared Small Target Detection	Ms. Lammi Choi, Mr. Won Young Chung, Mr. In Ho Lee, Prof. Chan Gook Park
WC3-5	Oct. 18 (Wed)	17:00-17:15	Oral	P00443	Exploring Object Detection Techniques in SAR Imagery:Addressing Limited Datasets and Leveraging Data	Mr. Haekang Song, Prof. Sungho Kim
WC3-6	Oct. 18 (Wed)	17:15-17:30	Oral	P00464	Cluster-based Object Detection System with Scalable Performance for Autonomous Driving	Graduate Student Hongsuk Kim, Graduate Student Yongseong Lee, Mr. Jangho Shin, Prof. Jong-Chan Kim
WC5-1	Oct. 18 (Wed)	16:30-16:45	Oral	P00102	Preliminary Results on Ultra-Wideband Range Measurements Model Considering a Directional Bias based on Spherical	Mr. Taekyun Kim, Prof. Dongjun Lee
WC5-2	Oct. 18 (Wed)	16:45-17:00	Oral	P00099	Multiplex PID consensus for single integrator agents	Prof. Younghun Lim
WC5-3	Oct. 18 (Wed)	17:00-17:15	Oral	P00078	Quantization-Aware Encrypted Consensus Protocol for Second-Order Multi-Agent Systems	Mr. Hung Manh Nguyen, Prof. Hyo-Sung Ahn
WC5-4	Oct. 18 (Wed)	17:15-17:30	Oral	P00028	Tilted Circumnavigation of Multiple Drones Around Multiple Targets	Mr. Mirzobek Malikov, Prof. Vladimir Shin, Dr. Yoonsoo Kim
WC6-1	Oct. 18 (Wed)	16:00-16:15	Oral	P00060	Design of a Quad Omni Wheeled Mobile Robot using Linear Actuators	Dr. Shuaiy Ragab, Graduate Student Kangmin Kim, Prof. Youngshik Kim, Prof. Buhyun Shin
WC6-2	Oct. 18 (Wed)	16:15-16:30	Oral	P00291	An Intuitive Human-Manipulator Interface with Mixed Reality	Mr. Yu-Wei Chang, Ms. Shu-Ting Hsu, Ms. Hua-Hsuan Yeh, Prof. Yen-Chen Liu
WC6-3	Oct. 18 (Wed)	16:30-16:45	Oral	P00334	Assembly of a Tool with Geometric Anisotropy for Automated EV Charging Mission	Mr. Beomjin Lee, Mr. Dongkyung Cheong
WC6-4	Oct. 18 (Wed)	16:45-17:00	Oral	P00387	Autonomous Agricultural Monitoring Robot for Efficient Smart Farming	Ms. Zubaidah Al-Mashhadani, Prof. Joon-Hyuk Park

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WC6-5	Oct. 18 (Wed)	17:00-17:15	Oral	P00421	Comparison of Yaw Moment Generation Methods for Motor Directly Driven Flapping Wing Micro Aerial Vehicle	Mr. Seungjik Choi, Mr. Seunghee Jeong, Prof. Taesam Kang, Prof. Jungkeun Park
WC6-6	Oct. 18 (Wed)	17:15-17:30	Oral	P00441	Foot-Operated Telelocomotion Interface for Avatar Robots Utilizing Mecanum Wheel-based Mobile Platforms	Mr. Hokyun Lee, Mr. Gyeongjae Park, Mr. Jaeyong Shin, Dr. Beomyeong Park, Prof. Jaeheung Park
WC6-7	Oct. 18 (Wed)	17:30-17:45	Oral	P00449	Recent Advances in Path Integral Control: An Overview	Dr. Muhammad Kazim, Mr. Joonki Hong, Dr. Kwangki Kim
WC7-1	Oct. 18 (Wed)	16:00-16:15	Oral	P00176	Robotic Stirring Mechanism with Novel Actuator for an Automated Drug Discovery Workcell	Graduate Student Yunqi Huang, Dr. Chin-Boon Chng, Prof. Jie Wu, Prof. Chee-Kong Chui
WC7-2	Oct. 18 (Wed)	16:15-16:30	Oral	P00214	Optimal Algorithm Applied Design of 7kW Servo Motor using Subdomain Method	Mr. Young-Ho Hwang, Mr. Dohyun Jang, Mr. In-Seok Song, Dr. Seok-Won Jung, Prof. Yong-Jae Kim, Prof. Sang-Yong Jung
WC7-3	Oct. 18 (Wed)	16:30-16:45	Oral	P00288	Distributed pose estimation with orientation errors	Dr. Jae-Gyeong Lee, Dr. Koog-Hwan Oh, Dr. Hyoung-Woo Kim, Dr. Hong-Ju Kim
WC7-4	Oct. 18 (Wed)	16:45-17:00	Oral	P00306	Optimization of MW-Class Dual Three-Phase Permanent Magnet Synchronous Machines for Electric Propulsion Vessels	Mr. Dohyun Jang, Mr. Young-Ho Hwang, Prof. Seok-Won Jung, Prof. Yong-Jae Kim, Prof. Sang-Yong Jung
WC7-5	Oct. 18 (Wed)	17:00-17:15	Oral	P00310	Software Structure Design for Implementing Machine Tool Feed Axis Control Algorithms	Ms. Kyungah Kim, Prof. Joon Young Choi
WC7-6	Oct. 18 (Wed)	17:15-17:30	Oral	P00331	Torque Distribution Mechanism for Wearable Upper Arm Robots Using Cam-Following Mechanism	Dr. Hyuk Jin Lee, Dr. Chang-Huk Lee, Dr. Hyoung Woo Kim, Dr. Jae-Gyeong Lee, Dr. Hong Ju Kim
WC7-7	Oct. 18 (Wed)	17:30-17:45	Oral	P00096	Development of a web application to support validation of indoor robots using AR	Mr. Kento Hirose, Prof. Masanobu Koga
WC8-1	Oct. 18 (Wed)	16:00-16:15	Oral	P00179	Fault Diagnosis using Kernel Linear Independence Test in Reproducing Kernel Hilbert Space	Mr. Lamsu Kim, Mr. Jayden Dongwoo Lee, Prof. Hyochoong Bang
WC8-2	Oct. 18 (Wed)	16:15-16:30	Oral	P00237	Design and Implementation of a Fault Inspection System for the Festo Modular Production System (MPS)	Mr. Alisultan Sagynbay, Mr. Azat Balapan, Prof. Tohid Alizadeh
WC8-3	Oct. 18 (Wed)	16:30-16:45	Oral	P00262	A Fault Diagnosis Method Based on Optimized SVDD And Multi-Symplectic Geometry Mode Decomposition for Rolling Bearings	Mr. Jianqun Zhang, Prof. Qing Zhang, Mr. Wenzong Feng, Dr. Yuantao Sun
WC8-4	Oct. 18 (Wed)	16:45-17:00	Oral	P00294	Application of a Statistical-based Feature Extraction Method for Harbor Crane Bearings in Fault Diagnosis	Mr. Wenzong Feng, Prof. Qing Zhang, Mr. Jianqun Zhang, Dr. Yuantao Sun
WC8-5	Oct. 18 (Wed)	17:00-17:15	Oral	P00309	Transformer-based Network for Remaining Useful Life Estimation of Filter	Mr. Keon Hee Lee, Prof. Dong-Joong Kang
WC8-6	Oct. 18 (Wed)	17:15-17:30	Oral	P00397	Sliding Mode Observer-Based Position-sensorless Control for Switched Reluctance Motors with Actuator Faults	Mr. Dongyoon Han, Mr. Seungju Moon, Mr. Gyu Won Kim, Mr. Huibeom Youn, Mr. Bo-Goon Kim, Prof. Jaepil Ban
WP-1	Oct. 18 (Wed)	17:30-18:30	Poster	P00006	ANN-based Tilt Angle Prediction for Improved UAV Autonomous Flight	Mr. Saewoong Min, Mr. Minjae Kang, Ms. Eunji Kim, Dr. Chulwoo Rhim
WP-2	Oct. 18 (Wed)	17:30-18:30	Poster	P00034	CUSUM (Cumulative Sum) Based High-Vacuum Data Drift Detection Reduces XPS Equipment Maintenance Time	Mr. Suhyoung Ha, Prof. Jaewook Jeon
WP-3	Oct. 18 (Wed)	17:30-18:30	Poster	P00036	Practical stability of a class of switched nonlinear positive systems	Graduate Student Yue Dong, Prof. Yazhou Tian
WP-4	Oct. 18 (Wed)	17:30-18:30	Poster	P00040	Analysis of the effect of the passive speed booster for a higher actuation speed	Mr. Jin-Gyu Lee, Prof. Hugo Rodrigue
WP-5	Oct. 18 (Wed)	17:30-18:30	Poster	P00042	A Reference Shaping Filter Design Method for Discrete-Time Sliding Mode Control With Decoupled Disturbance Compensator	Mr. Dae-Young Yang, Graduate Student Tae-Ho Oh, Mr. Young-Seok Kim, Dr. Sang-Hoon Lee, Prof. Dong-II Dan Cho
WP-6	Oct. 18 (Wed)	17:30-18:30	Poster	P00046	A new methods for periodic coupled operator equations under submatrix constraints	Ms. Wenling Wang, Prof. Caiqin Song
WP-7	Oct. 18 (Wed)	17:30-18:30	Poster	P00050	A Light Spot Centroid Determination Method for Accurate Digital Refractometer	Mr. Zhenxing Wang, Graduate Student Zhenyuan Jia

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WP-8	Oct. 18 (Wed)	17:30-18:30	Poster	P00057	Robot Arm End-Effector Force Tracking Impedance Control with Sliding Perturbation Observer-Based Estimated Environment	Mr. Muhammad Hamza Khan, Prof. Min Cheol Lee
WP-9	Oct. 18 (Wed)	17:30-18:30	Poster	P00061	Prediction based Auto-Pilot Interface for Drone to Object Chasing using Historical TSPI Data	Mr. Shinhyoung Jang, Mr. Byeonghwi Park, Mr. Juheon Jeong, Mr. Jack Mahedy, Mr. Nebey Gebreslassie, Graduate Student Minji Lee, Prof. Eric T
WP-10	Oct. 18 (Wed)	17:30-18:30	Poster	P00068	Fuzzy Adaptive Impedance Controller for a Simultaneous Control of Pose and Contact Force of a Cable-driven Parallel Robot	Mr. Thanh-Hai Nguyen, Prof. Kwan-Woong Gwak
WP-11	Oct. 18 (Wed)	17:30-18:30	Poster	P00080	LoRaWAN implementation for acoustic localization of coyotes	Ms. Jaehui Boo, Ms. Hyemin Lim, Mr. Hyeongjun Kim, Ms. Nayoun Kim, Graduate Student Justin Qiao Anderson, Mr. Weichieh Chin, Prof. Mia
WP-12	Oct. 18 (Wed)	17:30-18:30	Poster	P00086	Development of Cutting Blade End-effector for Manipulator Used in Pruning Fruit and Vegetable Crops in a Greenhouse	Dr. Changju Yang, Dr. Gookhwan Kim, Dr. Kyoung-Chul Kim, Dr. Kyung-Do Kwon, Dr. Ki-Beom Lee, Dr. Kangjin Lee, Dr. Youngki Hong
WP-13	Oct. 18 (Wed)	17:30-18:30	Poster	P00090	High-Resolution Virtual Traffic Images in Adverse Weather Conditions	Mr. Jeonghyeon Yoon, Prof. Juhui Gim
WP-14	Oct. 18 (Wed)	17:30-18:30	Poster	P00091	A TSA-based Haptic Display with a Rhombus Structure for Rendering Linearized High Force	Mr. Hyeonseok Seong, Dr. Zhenishbek Zhakypov, Prof. Allison Okamura, Prof. Jee-Hwan Ryu
WP-15	Oct. 18 (Wed)	17:30-18:30	Poster	P00094	Soft Sensing Brace for Monitoring Knee Joint Dynamics	Mr. Junhwan Choi, Prof. Jung Kim
WP-16	Oct. 18 (Wed)	17:30-18:30	Poster	P00103	Development of a Robot System for Chemical Coupler Assembly using a 6-DOF Compliance Device	Dr. Shi-Baek Park, Dr. Gi-Seong Kim, Dr. Sung-Hun Jeong, Prof. Han-Sung Kim
WP-17	Oct. 18 (Wed)	17:30-18:30	Poster	P00104	Ridge regression and data-driven tuning for direct design of FIR type feedback controller	Dr. Motoya Suzuki
WP-18	Oct. 18 (Wed)	17:30-18:30	Poster	P00105	LASSO regression and fictitious reference signal for non-parametric controller of mobile robot	Dr. Motoya Suzuki
WP-19	Oct. 18 (Wed)	17:30-18:30	Poster	P00108	Neural-Network-Based Adaptive Sliding Mode Control Design for Nonlinear Systems	Dr. Yundi Chu, Mr. Xujun Luo, Prof. Shixi Hou
WP-20	Oct. 18 (Wed)	17:30-18:30	Poster	P00115	Nelder-Mead Tuned PID Control for a Futuristic Geared-Turbofan Aeroengine Concept	Mr. Rodrigo M. L. S. Lamas, Dr. John Y. Hung
WP-21	Oct. 18 (Wed)	17:30-18:30	Poster	P00117	Cross-Domain Person Re-Identification Using Value Distribution Alignment	Mr. Minhoo Kim, Prof. Yeejin Lee
WP-22	Oct. 18 (Wed)	17:30-18:30	Poster	P00118	The full-rank JGI algorithm for generalized coupled Sylvester-transposed matrix equations	Ms. Rui Qi, Prof. Caiqin Song
WP-23	Oct. 18 (Wed)	17:30-18:30	Poster	P00128	Feature refinement via canonical correlation analysis for multimodal emotion recognition	Dr. Sunyoung Cho, Mr. Kyungchul Wee, Dr. Tae Yoon Chun
WP-24	Oct. 18 (Wed)	17:30-18:30	Poster	P00133	Class-Agnostic Self-Supervised Learning for Image Angle Classification	Mr. Hyeonseok Kim, Prof. Yeejin Lee
WP-25	Oct. 18 (Wed)	17:30-18:30	Poster	P00136	Simulation of a Soft Hollow Continuum Robot based on Learning Kinematics	Mr. John Kim, Mr. Jiwon Kim
WP-26	Oct. 18 (Wed)	17:30-18:30	Poster	P00137	PR-ShadowNet: Shadow Removal for Long-term Place Recognition	Mr. Jihoon Jung, Mr. Donggil You, Mr. Woonghee Lee, Prof. Junghyun Oh
WP-27	Oct. 18 (Wed)	17:30-18:30	Poster	P00144	CNN based Deep learning model for diagnosing T-stage of Early Gastric Cancer using Perilesional Feature Stitched Template	Mr. Byeongsoo Kim, Graduate Student Dan Yoon, Ms. Seung Yeon Cho, Mr. Youho Myong, Mr. Dong Hyun Choi, Prof. Ji Kon Ryu, Prof. Hyunsoo
WP-28	Oct. 18 (Wed)	17:30-18:30	Poster	P00146	Attention-Based Randomized Ensemble Multi-Agent Q-Learning	Mr. Jeongho Park, Ms. Obin Kwon, Prof. Songhwa Oh
WP-29	Oct. 18 (Wed)	17:30-18:30	Poster	P00150	Intensity-based Advanced Snow Particle Filtering in Point Clouds	Ms. Kahyeon Kim, Prof. Juhui Gim
WP-30	Oct. 18 (Wed)	17:30-18:30	Poster	P00156	Performance Guarantee of ADAS on Integrated ECU Concurrently Hosting Multi-Domain Applications	Mr. Seohwan Yoo, Mr. Hayeon Park, Mr. Hoyong Lee, Dr. Chang-Gun Lee

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WP-32	Oct. 18 (Wed)	17:30-18:30	Poster	P00305	Spot Welding Characteristics on the Manufacturing Method of Li-ion Battery Packs for Electric Vehicle	Dr. Amarnathbarma Angani, Dr. Myeong Hwan Hwang, Dr. Hyun Rok Cha, Dr. Young Gon Kim
WP-33	Oct. 18 (Wed)	17:30-18:30	Poster	P00312	Time-delayed Compensation for Sliding Mode Control of a Robot Manipulator	Prof. Seul Jung
WP-34	Oct. 18 (Wed)	17:30-18:30	Poster	P00317	Mixed Precision Quantization with Memory Constraint for Activation Compression in Deep Learning Networks	Mr. Jonghoon Kwak, Mr. Hojong Shin, Dr. Jonghee Park
WP-35	Oct. 18 (Wed)	17:30-18:30	Poster	P00326	Preliminary Study on Data Augmentation Methods for Sign Language Recognition	Ms. Jiho Lee, Dr. Han-Mu Park
WP-36	Oct. 18 (Wed)	17:30-18:30	Poster	P00327	Study on Expanding Marker Sensing Range for Robot Localization using Tilt Camera	Mr. Kyon-Mo Yang, Dr. Jeonghoon Kwak, Dr. Kap-Ho Seo
WP-37	Oct. 18 (Wed)	17:30-18:30	Poster	P00341	Development of Design and Slicing file based Automated Output Object Analysis System	Dr. Hyonyoung Han, Mr. Seongyeop Lee, Dr. Jiyeon Son
WP-38	Oct. 18 (Wed)	17:30-18:30	Poster	P00343	ESDNet: An Encoder-Sequencer-Decoder Network for Lane Detection to Facilitate Autonomous Driving	Dr. Muhammad Ishfaq Hussain, Dr. Muhammad Aasim Rafique, Mr. Zafran Khan, Dr. Ko Yeongmin, Ms. Zubia Naz, Mr. Farrukh Olimov, Dr.
WP-39	Oct. 18 (Wed)	17:30-18:30	Poster	P00349	Word-piece based natural language recognition for multimodal object retrieval	Dr. Jy Jung
WP-40	Oct. 18 (Wed)	17:30-18:30	Poster	P00350	AWP: Alpha Wrapping-Based Collision-Free Surface-Along Path Planner for UAV	Mr. Duckyu Choi, Mr. Donghyeon Youn, Prof. Hyun Myung
WP-41	Oct. 18 (Wed)	17:30-18:30	Poster	P00352	Development and Validation of Reconfigurable Autonomous Mobile Manipulator for Flexible Manufacturing Process	Mr. Okjoon Lee, Mr. Doyoung Kim, Ms. Yujin Kim, Mr. Wonseok Kim, Mr. Seungwon Lee, Mr. Dong Yeop Kim, Dr. Young-Ouk Kim, Mr. Keunhwan
WP-42	Oct. 18 (Wed)	17:30-18:30	Poster	P00353	Individual Pitch Controller of MW Wind Turbines and Out-of-Plane Blade Moment	Prof. Chae Wook Lim
WP-43	Oct. 18 (Wed)	17:30-18:30	Poster	P00354	Reconstruction-Based Anomaly Detection with Noise-Induced Normal Sample Augmentation	Mr. Yong Wan Kwon, Prof. Dong-Joong Kang
WP-44	Oct. 18 (Wed)	17:30-18:30	Poster	P00356	Preliminary Study on the Classification of Visual Grounding Techniques based on Multimodal Data Representation Methods	Mr. Youngrock Lo, Dr. Han-Mu Park
WP-45	Oct. 18 (Wed)	17:30-18:30	Poster	P00180	Combination of Canny and Sobel Edge Detection for Improving Performance of Hough Transform Based Lane Detection in a	Mr. Sung Min Hong, Mr. Young Jin Kim, Prof. Sun Young Kim
TA2-1	Oct. 19 (Thu)	09:00-09:15	Oral	P00058	An Accurate Path Tracking Algorithm for Autonomous Vehicles Based on Pure Pursuit with Systematically Designed Look-ahead	Mr. Ji Hwan Seo, Mr. Sung Hoon Youn, Ms. Jungeun Kim, Prof. Kyoung-Dae Kim
TA2-2	Oct. 19 (Thu)	09:15-09:30	Oral	P00082	FS-ACO: An Algorithm for Unsafe U-Turn Detours in Service Vehicle Route Optimization Applications	Mr. Tyler Parsons, Dr. Jaho Seo
TA2-3	Oct. 19 (Thu)	09:30-09:45	Oral	P00113	Deploying multiple vehicles for snow plowing using Smart Selective Navigator and its effect	Mr. Farhad Baghyari, Dr. Jaho Seo
TA2-4	Oct. 19 (Thu)	09:45-10:00	Oral	P00163	Robust path following control of autonomous surface vessels	Dr. Quoc Van Tran, Mr. Vinh Van Nguyen, Prof. Hoang Quang Nguyen
TA2-5	Oct. 19 (Thu)	10:00-10:15	Oral	P00299	SRN-CRL: Sparse Reward Navigation via Curiosity-driven Reinforcement Learning	Mr. Ji Sue Lee, Prof. Jun Moon
TA2-6	Oct. 19 (Thu)	10:15-10:30	Oral	P00372	Frenet Frame based Local Motion Planning in Racing Environment	Mr. Min Seong Kim, Mr. Jeon Hyeok Lee, Mr. Taek Lim Kim, Prof. Tae-Hyoung Park
TA3-1	Oct. 19 (Thu)	09:00-09:15	Oral	P00016	Predicting Winner of a Professional Basketball Match	Mr. Dhananjay Daundkar, Dr. Kundan Kandhway
TA3-2	Oct. 19 (Thu)	09:15-09:30	Oral	P00233	RDIU-Net: Lightweight Medical Image Segmentation Network	Mr. Juon Kurosawa, Dr. Armagan Elibol, Prof. Nak-Young Chong

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TA3-4	Oct. 19 (Thu)	09:45-10:00	Oral	P00297	Source Component Shift Detection and Classification for Improved Remaining Useful Life Estimation in Alarm-based	Mr. Kiavash Fathi, Mr. Marcin Sadurski, Prof. Tobias Kleinert, Prof. Hans Wernher Van De Venn
TA3-5	Oct. 19 (Thu)	10:00-10:15	Oral	P00324	Machine Learning Models for Financial Inclusion in Malaysia: Opportunity for Insurance or Takaful in Achieving Financial	Dr. Hui Shan Lee, Dr. Kee Seng Kuang, Dr. Ping Xin Liew, Prof. Annuar Md Nassir, Prof. Nazrul Hisyam Ab Razak
TA3-6	Oct. 19 (Thu)	10:15-10:30	Oral	P00428	Deep Learning based EO-LWIR Image Registration Obstacles: Survey	Mr. Donyung Kim, Prof. Sungho Kim
TA4-1	Oct. 19 (Thu)	09:00-09:15	Oral	P00135	An Active Noise Control Algorithm Using Variable Step Size Adaptive Filter with Constraint in Sparse System	Mr. Chan Park, Mr. Jun Hui Lee, Mr. Seongrok Moon, Prof. Poogyeon Park
TA4-2	Oct. 19 (Thu)	09:15-09:30	Oral	P00157	Real-Time Steel Surface Defect Detection and Classification with Inference Acceleration	Mr. Seongrok Moon, Mr. Jun Hui Lee, Mr. Kyung Soo Kim, Mr. Chan Park, Prof. Poogyeon Park
TA4-3	Oct. 19 (Thu)	09:30-09:45	Oral	P00208	Design of Supervisory Model Predictive Control for HVAC Systems and Two Zones with Consideration of Energy Efficiency	Mr. Panithan Srisurapanon, Prof. David Banjerdpongchai
TA4-4	Oct. 19 (Thu)	09:45-10:00	Oral	P00210	MARG Attitude estimation using global measurement update	Prof. Young Soo Suh, Dr. Thanh Tuan Pham
TA5-1	Oct. 19 (Thu)	09:00-09:15	Oral	P00037	A generalized multiple-integral inequality based on free matrices: Application to stability analysis of time-varying delay systems	Mr. Jun Hui Lee, Mr. Chan Park, Mr. Seongrok Moon, Prof. Poogyeon Park
TA5-2	Oct. 19 (Thu)	09:15-09:30	Oral	P00038	A standalone energy management system of hybrid battery/supercapacitor storage system using model predictive	Dr. Ngoc-Duc Nguyen, Prof. Young Il Lee
TA5-3	Oct. 19 (Thu)	09:30-09:45	Oral	P00039	Distributed Graph Matching and Structure of Symmetric Graphs	Prof. Hyo-Sung Ahn
TA5-4	Oct. 19 (Thu)	09:45-10:00	Oral	P00043	Maximum Norm Minimization: A Single-Policy Multi-Objective Reinforcement Learning to Expansion of the Pareto Front	Mr. Seonjae Lee, Dr. Myoung Hoon Lee, Prof. Jun Moon
TA5-5	Oct. 19 (Thu)	10:00-10:15	Oral	P00062	Tube-based Control Barrier Function for Unknown Input Delay	Ms. Ying Shuai Quan, Mr. Jing Sung Kim, Prof. Seung-Hi Lee, Prof. Chung Choo Chung
TA5-6	Oct. 19 (Thu)	10:15-10:30	Oral	P00097	Adaptive Learning Gain Based Control for Nonlinear Systems with External Disturbances: Application to PMSM : A	Mr. Sesun You, Prof. Wonhee Kim
TA6-1	Oct. 19 (Thu)	09:00-09:15	Oral	P00020	Fixed-Time Coordination Control for Spacecraft Formation Flying via NFFTSM and Sliding Mode Disturbance Observer	Mr. Zhihong Wang, Prof. Weiduo Hu
TA6-2	Oct. 19 (Thu)	09:15-09:30	Oral	P00173	D-stability of generalized homogeneous cooperative time-varying systems	Ms. Xiaoyu Li, Dr. Yuangong Sun
TA6-3	Oct. 19 (Thu)	09:30-09:45	Oral	P00245	User-friendly Vehicle-to-Grid Optimal Scheduling Problem and Distributed Implementation for Plug-and-play Operation	Mr. Seungbeom Lee, Ms. Soojeong Hyeon, Ms. Jiyeon Nam, Mr. Jinwook Heo, Prof. Hyungbo Shim, Mr. Jinsung Kim
TA6-4	Oct. 19 (Thu)	09:45-10:00	Oral	P00279	Energy-Constrained Persistent Coverage Control on Multi-Quadrotor Systems	Mr. Fan Jue-Rong, Mr. Mourya Thummalapeta, Mr. Yen-Chen Liu
TA6-5	Oct. 19 (Thu)	10:00-10:15	Oral	P00336	Adaptive Goal Management System: A Cloud-Based Robot Fleet Manager for Efficient Task Execution and Coordination	Dr. Muhammad Kazim, Mr. Michael Muldoon, Mr. Hyunjae Sim, Dr. Kwangki Kim
TA6-6	Oct. 19 (Thu)	10:15-10:30	Oral	P00459	Towards Collaborative Aerial Swarming for Military Applications	Mr. Jason Hughes, Dr. Dongbin Kim, Dr. Steven Henderson, Prof. Pratheek Manjunath
TA7-1	Oct. 19 (Thu)	09:00-09:15	Oral	P00023	Human-following Control of Omnidirectional Autonomous Mobile Robot by Integrating Sensor Information	Dr. Takahiro Inoue
TA7-2	Oct. 19 (Thu)	09:15-09:30	Oral	P00045	A Satcom On-the-move Phased-array Antenna Tracking Algorithm on Robot Operating System	Mr. Sheng-En Huang, Mr. Po-Hsun Chang, Mr. Xiu-Lin Lu, Prof. Jyh-Ching Juang
TA7-3	Oct. 19 (Thu)	09:30-09:45	Oral	P00071	Analysis of accurate focal points and automatic method of Digital Holographic Microscopy (DHM) for obtaining an accurate 3D	Mr. Taishi Ono, Dr. Hyun-Woo Kim, Prof. Myungjin Cho, Prof. Min-Chul Lee

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Session No.	Date	Time	Type	Paper No.	Paper Title	Author(s)
TA7-4	Oct. 19 (Thu)	09:45-10:00	Oral	P00073	A study on coherence length and interferometry in digital holographic microscopy	Mr. Takahiro Koga, Dr. Hyun-Woo Kim, Prof. Myungjin Cho, Prof. Min-Chul Lee
TA7-5	Oct. 19 (Thu)	10:00-10:15	Oral	P00075	A study on spatial resolution enhancement using Real-ESRGAN in digital holographic microscopy (DHM)	Ms. Shuyuan Dong, Dr. Hyun-Woo Kim, Prof. Min-Chul Lee
TA7-6	Oct. 19 (Thu)	10:15-10:30	Oral	P00442	Dynamic Analysis of a Piston Air Compressor in a Railway Vehicle Using Sensor Data	Mr. Myeong-Joon Kim, Prof. Chul-Goo Kang
TA8-1	Oct. 19 (Thu)	09:00-09:15	Oral	P00056	Design of a High-Performance Instance Segmentation Model Using Uncertainty-Guided Non-Maximum Suppression and	Graduate Student Seung Il Lee, Graduate Student Sangbeom Jeong, Prof. Hyun Kim
TA8-2	Oct. 19 (Thu)	09:15-09:30	Oral	P00093	Protection of Decentralized DC Microgrid System based on Detection of DC-bus Voltage Sensor Faults	Mr. Dat Thanh Tran, Dr. Seong Bae Jo, Prof. Kyeong-Hwa Kim
TA8-3	Oct. 19 (Thu)	09:30-09:45	Oral	P00154	Electrically Beam Steerable Phased Array Antenna Controlled by Varactors for Point-to-Point Wireless Communication	Mr. Sebastian Verho, Mr. Van Thang Nguyen, Prof. Jae-Young Chung
TA8-4	Oct. 19 (Thu)	09:45-10:00	Oral	P00174	Performance Analysis and Deep-Learning-Based Real-Time Evaluation for Multihop MIMO Full-Duplex Relay Networks with	Mr. Ngo Hoang Tu, Prof. Kyungchun Lee
TA8-5	Oct. 19 (Thu)	10:00-10:15	Oral	P00215	Smart Energy Town: Constructing OPC UA-Based Network Architecture	Dr. Changdae Lee, Prof. Young Il Lee
TA8-6	Oct. 19 (Thu)	10:15-10:30	Oral	P00389	Performance Evaluation of 5G NR Vehicle-to-Vehicle Communication	Dr. Derek Kwaku Pobi Asiedu, Mr. Kofi Amoako Ofori Amanfo, Mr. Maurice Nduwayezu, Prof. Ji-Hoon Yun
TB2-1	Oct. 19 (Thu)	13:00-13:15	Oral	P00152	Nonlinear Pedestrian Tracking by Unscented Particle Filter for Autonomous Vehicle under Existence of Non-Gaussian	Mr. Jin Ho Yang, Ms. Ju Won Seo, Prof. Chung Choo Chung
TB2-2	Oct. 19 (Thu)	13:15-13:30	Oral	P00153	A-BERF: Action-weighted Ensemble by Bootstrapping Extremely Randomized Forest for Pre-Crash Moral Decision in Autonomous	Mr. Jin Ho Yang, Prof. Chung Choo Chung
TB2-3	Oct. 19 (Thu)	13:30-13:45	Oral	P00335	Dynamic Obstacle Avoidance for Autonomous Motorcycles on Racing Circuits by Nonlinear Model Predictive Control	Mr. Michikuni Eguchi, Dr. Hisashi Date
TB2-4	Oct. 19 (Thu)	13:45-14:00	Oral	P00366	Improving Indoor Positioning Systems with UWB and Filtering Techniques: A Comparative Analysis	Mr. Rahul Ranjan, Mr. Shin Donggyu, Mr. Younsik Jung, Prof. Sanghyun Kim, Dr. Chang-Hyun Kim, Prof. Seungjae Lee, Prof. Joongeup Kye
TB2-5	Oct. 19 (Thu)	14:00-14:15	Oral	P00383	Controller Design for Heave and Surge Motions for AUVs	Ms. Sandhya Rani Gumpina, Prof. Tae Sam Kang
TB2-6	Oct. 19 (Thu)	14:15-14:30	Oral	P00391	A study on analysis of wheel characteristics using amphibious toys	Mr. Jongho Bae, Mr. Sungho Jin, Mr. Hyun Seok Shin, Mr. Man Gi Lee, Mr. Sung Ho Park, Dr. Gun Rae Cho
TB3-1	Oct. 19 (Thu)	13:00-13:15	Oral	P00116	Development of in-vivo rabbit model of human finger skin injuries for determining safety criteria for human-robot contact	Dr. Tatsuo Fujikawa, Graduate Student Kazumi Okai, Prof. Yoji Yamada, Dr. Nader Rajaei, Prof. Tetsuya Nishimoto
TB3-2	Oct. 19 (Thu)	13:15-13:30	Oral	P00132	Control and Actuation Optimization of Hyper-Vacuum Artificial Muscles	Mr. Altair Coutinho, Prof. Hugo Rodrigue
TB3-3	Oct. 19 (Thu)	13:30-13:45	Oral	P00303	Development of Agri-Bot for seed sowing automation	Mr. Vijay Pandey, Prof. Vijay Kumar Gupta, Prof. Tanuja Sheorey
TB3-4	Oct. 19 (Thu)	13:45-14:00	Oral	P00328	String Lifetime Evaluation of Twisted String Actuators-Applied to a Soft-Wearable Robot	Prof. Guhyun Kang, Prof. Joongeup Kye
TB3-5	Oct. 19 (Thu)	14:00-14:15	Oral	P00339	Novel Bio-inspired Artificial Muscle using Shape Memory Alloy Wire in Spiral Winding	Dr. Hussein Fouad Mohamed Ali, Prof. Youngshik Kim
TB3-6	Oct. 19 (Thu)	14:15-14:30	Oral	P00439	A Mobile Manipulator for Logistic Applications	Mr. Arshman Amer Awan, Mr. Osama Aftab Usman, Dr. M. Zubair Khan, Mr. Usman Ghafoor, Prof. M. Raheel Bhutta
TB5-1	Oct. 19 (Thu)	13:00-13:15	Oral	P00259	Discussion of Teleoperation Support System Design Guideline for Working Robot in Radiation Narrow Environment	Mr. Ryosuke Kobayashi, Prof. Takashi Yoshimi
TB5-2	Oct. 19 (Thu)	13:15-13:30	Oral	P00269	Design of Algorithm for Dead Fish Recognition Based on Analysis of Fish Movement Patterns	Mr. Jung-Ho Kang, Ms. Tatiana Keruzel, Prof. Kyung-Chang Lee

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Session No.	Date	Time	Type	Paper No.	Paper Title	Author(s)
TB5-3	Oct. 19 (Thu)	13:30-13:45	Oral	P00273	Linearized Deviation Model of the Finite Screw for a Successive Manipulator	Prof. Min Cheol Lee, Mr. Jaehyung Kim
TB5-4	Oct. 19 (Thu)	13:45-14:00	Oral	P00337	Experimental report on digital twin system to assist in deep snow removal works	Mr. Shunsuke Izutsu, Mr. Naoto Tanifuji, Prof. Tadahiro Hasegawa, Prof. Shin'Ichi Yuta, Mr. Tomoyuki Kato, Mr. Motoyuki Shiraishi, Mr. Naoki
TB5-5	Oct. 19 (Thu)	14:00-14:15	Oral	P00338	Accurate self-localization by time management fusion between 3D-NDT and odometry	Mr. Naoto Tanifuji, Prof. Tadahiro Hasegawa, Prof. Hiroaki Fukuda, Prof. Shin'Ichi Yuta
TB5-6	Oct. 19 (Thu)	14:15-14:30	Oral	P00351	Obstacle Avoidance in Dynamic Environment using Particle Swarm Optimization and Kalman Filter	Mr. Junmyeong Kim, Mr. Kwanho Kim, Prof. Kanghyun Jo
TB6-1	Oct. 19 (Thu)	13:00-13:15	Oral	P00021	Sensorless Speed Control for SPMSM via Nonlinear Observer and Modified Super-Twisting ADRC	Mr. Mingyuan Hu, Prof. Kwanho You
TB6-2	Oct. 19 (Thu)	13:15-13:30	Oral	P00111	Embedded-oriented PMSM MTPA-control with Reinforcement Learning and CO2 burden	Dr. Raik Orbay, Graduate Student Yijie Ren, Dr. Joachim Härsjö, Mr. Lukasz Sobieraj, Prof. Martin Fabian, Prof. Torbjörn Thiringer
TB6-3	Oct. 19 (Thu)	13:30-13:45	Oral	P00283	Fuzzy dynamic sliding mode control for permanent magnet synchronous generator model	Dr. Ramasamy Kavikumar, Dr. Seung-Hoon Lee, Dr. Ramalingam Sakthivel, Prof. Ohmin Kwon
TB6-4	Oct. 19 (Thu)	13:45-14:00	Oral	P00388	Double ESOs based Active Disturbance Rejection Control for Permanent Magnet Synchronous Motors	Mr. Gwanyeon Kim, Prof. Wonhee Kim
TB6-5	Oct. 19 (Thu)	14:00-14:15	Oral	P00410	H $\infty$ LPV Observer Design for Position-sensorless Control of Switched Reluctance Motors: An LMI Approach	Mr. Seungju Moon, Mr. Dongyoon Han, Mr. Huibeom Youn, Mr. Gyuwon Kim, Mr. Bogoon Kim, Prof. Jaepil Ban
TB6-6	Oct. 19 (Thu)	14:15-14:30	Oral	P00436	Autotuning Gain based Backstepping Control Using Online Policy Iteration for PMSM	Mr. Kwankyun Byeon, Mr. Sesun You, Ms. Jiwon Seo, Prof. Wonhee Kim
TB7-1	Oct. 19 (Thu)	13:00-13:15	Oral	P00390	On Reverse-ordered Implementation of Differential Dynamic Programming for Unconstrained Optimal Control Problem	Mr. Wonyoung Park, Prof. Gyunghoon Park
TB7-2	Oct. 19 (Thu)	13:15-13:30	Oral	P00392	A Study on Robust Stability for Multi-rate Model Predictive Control for Linear Systems with Additive Disturbance	Mr. Junsoo Kim, Prof. Gyunghoon Park
TB7-3	Oct. 19 (Thu)	13:30-13:45	Oral	P00413	Trajectory Tracking Control of Emergency Supplies Transportation Robot Based on Koopman Operator and ESO-	Ms. Yaqi Zhang, Prof. Minan Tang, Mr. Haiyan Zhang, Graduate Student Wenjuan Wang, Graduate Student Bo An, Graduate Student Yaguang Yan
TB7-4	Oct. 19 (Thu)	13:45-14:00	Oral	P00446	Linear Convergence Rate of Distributed Extragradient Method for Optimization With Different Constraint Sets	Dr. Ismi Rosyiana Fitri, Prof. Jung-Su Kim
TB7-5	Oct. 19 (Thu)	14:00-14:15	Oral	P00472	Multivariable Gain Scheduling Model Predictive Control for Post-Combustion CO2 Capture System	Prof. An Aimin
TB8-1	Oct. 19 (Thu)	13:00-13:15	Oral	P00159	Radar Velocity Estimation Using RANSAC,SNR based Error Compensation Algorithm	Mr. Minhoo Lee, Mr. Hoang Viet Do, Mr. Kyeong-Wook Seo, Mr. Dongyun Hwang, Prof. Jin Woo Song
TB8-2	Oct. 19 (Thu)	13:15-13:30	Oral	P00181	DOPP Study	Prof. Sangkyung Sung, Mr. Donggyun Kim
TB8-3	Oct. 19 (Thu)	13:30-13:45	Oral	P00256	Robust Walking Direction Estimation via Principal Component Pursuit in Pedestrian Dead Reckoning	Mr. Jae Wook Park, Graduate Student Jae Hong Lee, Prof. Chan Gook Park
TB8-4	Oct. 19 (Thu)	13:45-14:00	Oral	P00268	HNN-Transformer Integrated Network for Estimating Robot Position	Prof. Chang Ho Kang, Prof. Sun Young Kim
TB8-5	Oct. 19 (Thu)	14:00-14:15	Oral	P00275	Performance evaluation of quasi-optimal multi-constellation satellite selection methods	Mr. Taek Geun Lee, Mr. Seok Ho Lee, Ms. Yun Seo Choi, Prof. Hyung Keun Lee
TB8-6	Oct. 19 (Thu)	14:15-14:30	Oral	P00363	Development of an Advanced Navigation System for Autonomous Mobile Robots for Logistics Environments	Mr. Jun-Hyeon Choi, Mr. Sang-Hyeon Bae, Ms. Ye-Chan An, Dr. Tae-Yong Kuc
TC1-1	Oct. 19 (Thu)	16:00-16:15	Oral	P00077	Batch-to-batch optimization with model adaptation leveraging Gaussian processes: the case of optogenetically assisted	Mr. Sebastian Espinel Rios, Graduate Student Rudolph Kok, Dr. Steffen Klamt, Prof. Jose L. Avalos, Prof. Rolf Findeisen
TC1-2	Oct. 19 (Thu)	16:15-16:30	Oral	P00101	Corpuscular volume estimation using a small amount of blood via microscope images	Ms. Jegyeong Ryu, Ms. Dahyun Nam, Dr. Junghyun John Son, Dr. Amy Kyungwon Han, Dr. Deukhee Lee

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TC1-3	Oct. 19 (Thu)	16:30-16:45	Oral	P00188	Compensating for Size Effect in Shear Wave Elastography using Deep Neural Networks	Graduate Student Seungyeop Lee, Prof. Jae Youn Hwang, Prof. Yongsoon Eun
TC1-4	Oct. 19 (Thu)	16:45-17:00	Oral	P00422	Novel design of DNA constant-signal generator towards an experimental feasibility	Mr. Takeru Fujimura, Prof. Takashi Nakakuki
TC2-1	Oct. 19 (Thu)	16:00-16:15	Oral	P00307	Optimizing Terminal Time of Fed-batch Bioreactor with Model Predictive Control	Dr. Tae Hoon Oh
TC2-2	Oct. 19 (Thu)	16:15-16:30	Oral	P00320	Model-based Design and Control of Biopharmaceutical Manufacturing Processes	Prof. Moo Sun Hong, Prof. Richard D. Braatz
TC2-3	Oct. 19 (Thu)	16:30-16:45	Oral	P00361	Tube-Enhanced Multi-Stage Model Predictive Control for Robust Fed-Batch Cultivation of E. Coli	Prof. Jong Woo Kim
TC2-4	Oct. 19 (Thu)	16:45-17:00	Oral	P00476	Batch Bayesian optimization of culture conditions for Yarrowia lipolytica to produce lipid as a biofuel precursor	Dr. Kyeongsu Kim
TC3-1	Oct. 19 (Thu)	15:50-16:05	Oral	P00211	Bounds on the Number of Training Samples Needed for Inverse Kinematics Solutions by Artificial Neural Networks	Prof. Dongwon Lim
TC3-2	Oct. 19 (Thu)	16:05-16:20	Oral	P00248	Model-Based Reinforcement Learning for Environments with Delayed Feedback	Graduate Student Jangwon Kim, Mr. Hangeol Kim, Mr. Jiwook Kang, Prof. Soohee Han
TC3-3	Oct. 19 (Thu)	16:20-16:35	Oral	P00264	Deep Neural Network Approach for Automated Architectural Bolt Usage Prediction in Building Information Model Control	Prof. Soohee Han, Mr. Jonghyeok Park
TC3-4	Oct. 19 (Thu)	16:35-16:50	Oral	P00271	Recovery Direction Classification: Reduced Order Quadrotor Dynamics Based Method	Prof. Soohee Han, Graduate Student Changhyeon Lee, Graduate Student Woojung Lim, Graduate Student Seunghyeon Sim, Graduate Student
TC3-5	Oct. 19 (Thu)	16:50-17:05	Oral	P00429	Augmented-Ensemble TD3 : Overcoming the Shackles of Constant Action Delay	Prof. Soohee Han, Mr. Jongsoo Lee
TC3-6	Oct. 19 (Thu)	17:05-17:20	Oral	P00433	Unveiling the Potential and Limitations of Visual Reinforcement Learning: An Experimental Analysis on the Cart-Pole Inverted	Prof. Soohee Han, Mr. Sanghyun Ryoo
TC6-1	Oct. 19 (Thu)	16:00-16:15	Oral	P00395	Guaranteeing Infinite-time Stealthiness in Robust Zero-dynamics Attack Policy with Time-varying Time Constant: A Preliminary	Prof. Gyunghoon Park
TC6-2	Oct. 19 (Thu)	16:15-16:30	Oral	P00402	Switching-like event-triggered control of nonlinear networked systems under DoS attacks using predictor-based observer	Ms. Meng Yang, Dr. Junyong Zhai
TC6-3	Oct. 19 (Thu)	16:30-16:45	Oral	P00406	Simultaneous conversion of state and output matrix for encrypted control	Prof. Junsoo Kim
TC7-1	Oct. 19 (Thu)	16:00-16:15	Oral	P00009	Learning-based Predictive Control for Vehicle Following Problems	Graduate Student Ziliang Wang, Prof. Shuyou Yu, Graduate Student Yajing Zhang, Dr. Xiaohui Yu, Prof. Hong Chen
TC7-2	Oct. 19 (Thu)	16:15-16:30	Oral	P00205	Improving Time Delay Control Performance for Varying Disturbance using Gaussian Process Extrapolation	Prof. Jung-Su Kim, Mr. Abdul Aris Umar
TC7-3	Oct. 19 (Thu)	16:30-16:45	Oral	P00257	Characteristics of Autopilot Lag and Time-Varying Thrust for Model Predictive Control based Impact Angle Guidance Law	Dr. Sungjin Cho
TC7-4	Oct. 19 (Thu)	16:45-17:00	Oral	P00360	Current constrained single-loop model predictive voltage control for DC-DC buck converter using online optimization	Dr. Ngoc-Duc Nguyen, Prof. Young Il Lee
TC8-1	Oct. 19 (Thu)	16:00-16:15	Oral	P00325	Autonomous Tributary Mapping using Multi-UAV System based on Semantic SLAM and Supervisory Control Theory	Ms. Jeonghyeon Pak, Mr. Jaehwi Seol, Prof. Hyoung Il Son
TC8-2	Oct. 19 (Thu)	16:15-16:30	Oral	P00367	Performance Evaluation of the Stem Cutting Mechanism using a Twisted String Actuation System	Mr. Seongmo Choi, Prof. Myun Joong Hwang
TC8-3	Oct. 19 (Thu)	16:30-16:45	Oral	P00401	Measurement and Analysis of Aerial Spray Characteristics using PointNet++ According to Flight Conditions	Mr. Changjo Kim, Mr. Jaehwi Seol, Graduate Student Eunji Ju, Prof. Hyoung Il Son
TC8-4	Oct. 19 (Thu)	16:45-17:00	Oral	P00455	Feature Vector Manipulation in the Latent Space for Classification Criterion Adjustment in CNN Models without	Prof. Inhoon Jang, Dr. Jungin Kim, Mr. Changyu Park, Ms. Jimin Lee

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FA1-1	Oct. 20 (Fri)	09:00-09:15	Oral	P00005	Simulation of Physical Adversarial Attacks on Vehicle Detection Models	Dr. Se Yoon Oh, Mr. Hunmin Yang
FA1-2	Oct. 20 (Fri)	09:15-09:30	Oral	P00114	Fuzzy Inference System-applied Spacecraft Control for Final Approach of Rendezvous Process	Dr. Daegyun Choi, Mr. Anirudh Chhabra, Prof. Donghoon Kim
FA1-3	Oct. 20 (Fri)	09:30-09:45	Oral	P00142	Development of Mobile Robot with Autonomous Mobile Robot Weeding and Weed Recognition by Using Computer Vision	Dr. Azamat Nurlanovich Yeshmukhametov, Mr. Daniyar Dauletiya, Mr. Mukhtar Zhassuzak, Dr. Zholdas Buribayev
FA1-4	Oct. 20 (Fri)	09:45-10:00	Oral	P00178	Multi-Source Tasks in Transfer Learning for Deep Reinforcement Learning: Application to Robotics Simulations	Mr. Younjae Go, Prof. Jun Moon
FA1-5	Oct. 20 (Fri)	10:00-10:15	Oral	P00285	Enhancing Autonomous Robot Navigation based on Deep Reinforcement Learning: Comparative Analysis of Reward	Dr. Nabih Pico, Mr. Junsang Lee, Ms. Estrella Montero, Mr. Eugene Auh, Dr. Meseret Tadese, Mr. Jeongmin Jeon, Dr. Manuel Alvarez, Dr. Hyungpil
FA2-1	Oct. 20 (Fri)	09:00-09:15	Oral	P00031	Robust Model Predictive Control for a Steering Angle of an Autonomous Vehicle System Considering Collision Avoidance	Dr. Nam Ngoc Nguyen, Graduate Student Hung Duy Nguyen, Prof. Kyoungseok Han
FA2-2	Oct. 20 (Fri)	09:15-09:30	Oral	P00079	Model Predictive Control-based Path Tracking with Four-Wheel Independent Steering, Driving, and Braking Autonomous	Prof. Yonghwan Jeong, Mr. Dong Hyun Kim, Mr. Min Hyeok Youn, Mr. Sunyeap Park, Mr. Xian Jun Xian Jun Li, Mr. Taeyeon Lee
FA2-3	Oct. 20 (Fri)	09:30-09:45	Oral	P00189	Game theory-based Overtaking-Preventing Controller for Competitive Racing Scenarios	Graduate Student Kyoungtae Ji, Prof. Kyoungseok Han
FA2-4	Oct. 20 (Fri)	09:45-10:00	Oral	P00252	Development of a Human-Like Adaptation Rule-based Proportional-Integral Control Algorithm for Universal Steering	Ms. Hanbyeol La, Mr. Jiung Lee, Prof. Kwangseok Oh
FA2-5	Oct. 20 (Fri)	10:00-10:15	Oral	P00254	Development of a Human-Like Model Predictive Path Tracking Control Algorithm for Autonomous Vehicles with Self-Tuning of	Mr. Jiung Lee, Mr. Sehwan Kim, Prof. Kwangseok Oh
FA2-6	Oct. 20 (Fri)	10:15-10:30	Oral	P00315	Development of a Backstepping Control-based Path Tracking Algorithm for Autonomous Mobility with Control Delay	Ms. Munjung Jang, Mr. Sehwan Kim, Prof. Kwangseok Oh
FA2-7	Oct. 20 (Fri)	10:30-10:45	Oral	P00419	Development of an Uncertainty Estimation-based Adaptive Path Tracking Control Algorithm for Autonomous Vehicles with	Mr. Sehwan Kim, Prof. Kwangseok Oh
FA3-1	Oct. 20 (Fri)	09:00-09:15	Oral	P00070	A research on scattering removal technology using compact GPU machine for real-time visualization	Mr. Seiya Ono, Dr. Hyun-Woo Kim, Prof. Myungjin Cho, Prof. Min-Chul Lee
FA3-2	Oct. 20 (Fri)	09:15-09:30	Oral	P00088	Photon-counting integral imaging using Bayesian estimation with depth camera information	Mr. Hideaki Uchino, Dr. Hyun-Woo Kim, Prof. Myungjin Cho, Prof. Min-Chul Lee
FA3-3	Oct. 20 (Fri)	09:30-09:45	Oral	P00119	Enhancement three-dimensional localization of ArUco marker under photon-starved conditions	Mr. Jin-Ung Ha, Dr. Hyun-Woo Kim, Prof. Myungjin Cho, Prof. Min-Chul Lee
FA3-4	Oct. 20 (Fri)	09:45-10:00	Oral	P00206	Utilizing Machine Learning for Predicting the Trajectory of Moving Objects and Implementing a Robot-based Catching Algorithm	Mr. Nameyong Lee, Dr. Jun Moon
FA3-5	Oct. 20 (Fri)	10:00-10:15	Oral	P00251	Building reliable datasets for autonomous vehicles: Data Factory for the industry and intelligent trains.	Dr. Claire Nicodeme
FA3-6	Oct. 20 (Fri)	10:15-10:30	Oral	P00276	Method of tracking moving objects combining Kalman filter and K-means	Mr. Hitoki Uchida, Dr. Teruo Yamaguchi
FA4-1	Oct. 20 (Fri)	09:00-09:15	Oral	P00053	Extraction of Lung Tumor Regions from Thoracic CT Images Using An Improved U-Net	Mr. Reo Takahashi, Prof. Tohru Kamiya, Dr. Takashi Terasawa, Dr. Takatoshi Aoki
FA4-2	Oct. 20 (Fri)	09:15-09:30	Oral	P00065	A Method for Denoising from Low-Dose CT images Based on Noise2Noise	Mr. Shuji Sawada, Prof. Tohru Kamiya, Dr. Guangxu Li, Prof. Seiichi Murakami
FA4-3	Oct. 20 (Fri)	09:30-09:45	Oral	P00092	Automatic Segmentation of Finger Bone Regions from CR Image Using An Improved HRNet	Mr. Takumu Hiraoka, Prof. Tohru Kamiya, Prof. Takatoshi Aoki
FA4-4	Oct. 20 (Fri)	09:45-10:00	Oral	P00100	Facial Symmetry Analysis for Cleft Lip Patients from 4D Point Cloud Data	Mr. Narumi Kihara, Dr. Namiko Kimura-Nomoto, Dr. Takako Okawachi, Prof. Norifumi Nakamura, Prof. Guangxu Li, Dr. Tohru Kamiya
FA5-1	Oct. 20 (Fri)	09:00-09:15	Oral	P00184	Simulating Quadrotor Dynamics in the Presence of Constant Winds	Graduate Student Minhyeok Kwon, Prof. Yongsoon Eun

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FA5-2	Oct. 20 (Fri)	09:15-09:30	Oral	P00289	Learning-Based NMPC for Agile Navigation and Obstacle Avoidance in Unstructured Environments	Dr. Oualid Doukhi, Mr. Daeuk Kang, Mr. Yoonha Ryu, Mr. Jaeho Lee, Prof. Deok Jin Lee
FA5-3	Oct. 20 (Fri)	09:30-09:45	Oral	P00414	Automatic Transition Maneuvers of Tilt-Rotor Aircraft within Conversion Corridor	Mr. Heetae Park, Mr. Hojo Jeong, Graduate Student Daeun Hwang, Graduate Student Junhyun Lim, Prof. Jinyoung Suk, Prof. Seungkeun Kim
FA5-4	Oct. 20 (Fri)	09:45-10:00	Oral	P00458	GoLive - A modular Mixed Reality Simulation for Semantic Plug and Play	Dr. Constantin Wanninger, Mr. Thomas Badem, Mr. Martin Schörner, Mr. Christian Eymüller, Mr. Alexander Poeppel, Prof. Wolfgang Reif
FA5-5	Oct. 20 (Fri)	10:00-10:15	Oral	P00479	Indoor Pedestrian-Following System by a Drone with Edge Computing and Neural Networks: Part 1 - System Design	Mr. In-Chan Ryu, Mr. Jung-Il Ham, Mr. Jun-Oh Park, Mr. Jae-Woo Joeng, Dr. Sung-Chang Kim, Prof. Hyo-Sung Ahn
FA5-6	Oct. 20 (Fri)	10:15-10:30	Oral	P00480	Indoor Pedestrian-Following System by a Drone with Edge Computing and Neural Networks: Part 2 - Development of	Mr. Jungil Ham, Mr. Inchan Ryu, Mr. Jun Oh Park, Mr. Jaewoo Jeong, Dr. Sung-Chang Kim, Prof. Hyo-Sung Ahn
FA6-1	Oct. 20 (Fri)	09:00-09:15	Oral	P00022	Fingertip Force Control based on Contraction Force Model of Elastic Round-belt	Dr. Takahiro Inoue
FA6-2	Oct. 20 (Fri)	09:15-09:30	Oral	P00134	Exploring Generalization and Adaptability of Offline Reinforcement Learning for Robot Manipulation	Dr. Hyun Kim, Dr. Injun Park, Dr. Ingoock Jang, Dr. Seonghyun Kim, Dr. Samyeul Noh, Dr. Joonmyon Cho
FA6-3	Oct. 20 (Fri)	09:30-09:45	Oral	P00226	Decentralized Fuzzy Control Based Trajectory Tracking of a Robotic Manipulator	Dr. Hsiu-Ming Wu, Mr. Yi-Yang Cai, Mr. Wei-Lun Su
FA6-4	Oct. 20 (Fri)	09:45-10:00	Oral	P00243	Direct Teaching/Playback Method for the Contact Task of a six-DOF Manipulator using a Parallel-Wire-Type Teaching Device	Mr. Tatsuya Okochi, Dr. Masao Sakai, Prof. Yoshifumi Morita
FA6-5	Oct. 20 (Fri)	10:00-10:15	Oral	P00311	Experimental Studies of Hybrid Force Control with Time-delayed Compensation for a Robot Manipulator	Graduate Student Jun Woo Lee, Prof. Seul Jung
FA6-6	Oct. 20 (Fri)	10:15-10:30	Oral	P00313	Experimental Studies on Neural Network Compensation for Time-delayed Control of a Robot Manipulator	Prof. Seul Jung, Graduate Student Jun Woo Lee
FA7-1	Oct. 20 (Fri)	09:00-09:15	Oral	P00044	Design and performance evaluation of three-fingered piano-playing robot	Mr. Tristan Akira Campos Segura, Mr. Kota Nakamura, Prof. Yoshihiko Takahashi
FA7-2	Oct. 20 (Fri)	09:15-09:30	Oral	P00110	Comparison of facial expression sensors and skin potential response sensors for emotion estimation by communication	Dr. Naoya Hasegawa, Mr. Rin Hirahara, Prof. Yoshihiko Takahashi
FA7-3	Oct. 20 (Fri)	09:30-09:45	Oral	P00249	Comparison of facial expression sensors and cerebral blood flow sensors for emotion estimation by communication robots	Dr. Naoya Hasegawa, Mr. Rin Hirahara, Mr. Shohei Kurokawa, Prof. Yoshihiko Takahashi
FA7-4	Oct. 20 (Fri)	09:45-10:00	Oral	P00332	A Study on the Path Estimation of the Autonomous Mobile Robot in Extreme Environment using Image Processing and Kalman	Mr. Jaeheon Park, Mr. Seok Tae Kim
FA7-5	Oct. 20 (Fri)	10:00-10:15	Oral	P00432	Synergistic Design and Analysis of a Multi-Tasking Robot enabling Artificial Intelligence for Hazard response	Mr. Md Hasibur Rahman, Mr. Md Fayed Al Monir, Mr. Rahat Hasan Shihab, Mr. Fatin Ishraq Ahammed, Dr. Saadia Binte Alam, Dr.
FA8-1	Oct. 20 (Fri)	09:00-09:15	Oral	P00063	Development of a Smart Aquaponic System based on IoT	Prof. A. M. Bassiuny, Dr. Rania Darwish, Mr. M. M. M. Mahmoud
FA8-2	Oct. 20 (Fri)	09:15-09:30	Oral	P00106	Web-based Structural Health Monitoring System Using Piezoelectric Joint Sensors and IoT Devices	Graduate Student Keiju Seki, Dr. Kazuhisa Nakasho, Dr. Carlos Cuadra, Prof. Nobuhiro Shimoi
FA8-3	Oct. 20 (Fri)	09:30-09:45	Oral	P00253	Link Budget Analysis for HSR Communication in Low Frequency Spectrum	Dr. Selvi Lukman, Prof. Yul Yunazwin Nazaruddin
FA8-4	Oct. 20 (Fri)	09:45-10:00	Oral	P00301	Perimeter Intrusion Prediction Method Using Trajectory Frequency and Naive Bayes Classifier	Dr. Joongsup Yun, Prof. Hyo-Sang Shin, Prof. Antonios Tsourdos
FA8-5	Oct. 20 (Fri)	10:00-10:15	Oral	P00471	Implementation of WSN and Fire Hazard Alarm in a Smarthome System	Mr. Syd Tabat Castillo, Mr. Ramius Delos Santos Bagunu, Ms. Charmaine Cabrera Paglinawan
FB1-1	Oct. 20 (Fri)	14:10-14:25	Oral	P00059	Condition Monitoring on Railway Construction Site using Timelapse Videos	Dr. Claire Nicodeme
FB1-2	Oct. 20 (Fri)	14:25-14:40	Oral	P00194	Missing Data Imputation Using Transformer Model for Distribution System State Estimation	Mr. Y Raghuvamsi, Dr. Kiran Teeparthi, Mr. Sreenadh Batchu

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Session No.	Date	Time	Type	Paper No.	Paper Title	Author(s)
FB1-3	Oct. 20 (Fri)	14:40-14:55	Oral	P00240	Development of a DCNN-based LIB state diagnosis system	Mr. Donghoon Seo, Prof. Jongho Shin
FB1-4	Oct. 20 (Fri)	14:55-15:10	Oral	P00445	Comparative Analysis for missing button recognition in an elevator panel	Mr. Arpan Ghosh, Mr. Ye-Chan An, Mr. Jeong-Won Pyo, Prof. Tae-Yong Kuc
FB1-5	Oct. 20 (Fri)	15:10-15:25	Oral	P00451	Performance Prediction of Open Rotor Enabled by Neural Network	Dr. Qihang Wang, Prof. Li Zhou, Prof. Zhanxue Wang
FB1-6	Oct. 20 (Fri)	15:25-15:40	Oral	P00478	A Slim Convolutional Neural Network for Low-cost Masked Facial Expression Classifier	Dr. Muhamad Dwisnanto Putro, Dr. Vecky Canisius Poekoel, Mr. Adri Priadana, Mr. Jinsu An, Prof. Kanghyun Jo
FB2-1	Oct. 20 (Fri)	14:10-14:25	Oral	P00149	Persona-based Dialogue Generation with Sentence Embedding for Prolonged Human-Robot Communication	Mr. Chen Yue, Dr. Armagan Elibol, Prof. Nak-Young Chong
FB2-2	Oct. 20 (Fri)	14:25-14:40	Oral	P00192	Tracking of Needle Grip for the Augmented Reality Simulation of Vascular Injection	Ms. Qiaodi Yuan, Prof. Doo Yong Lee
FB2-3	Oct. 20 (Fri)	14:40-14:55	Oral	P00202	Posture Estimation for Bed Monitoring System Using RFID	Dr. Kazuhisa Nakasho, Ms. Chiaki Kohama, Mr. Kenta Sawada, Prof. Katsumi Wasaki, Prof. Nobuhiro Shimoi
FB2-4	Oct. 20 (Fri)	14:55-15:10	Oral	P00258	Virtual Reality based Intuitive Spatial Visual Interface for Avatar Robot System	Mr. Jaeyong Shin, Mr. Junewhee Ahn, Mr. Suhan Park, Mr. Beomyeong Park, Mr. Junhyeok Cha, Prof. Jaeheung Park
FB2-5	Oct. 20 (Fri)	15:10-15:25	Oral	P00308	Design of a Dog-type Social Robot to Support Children's Reading Activities and Development of a Touch Sensor Module	Mr. Yongseop Kwon, Mr. Seungbin Jeong, Mr. Haeun Park, Prof. Hui Sung Lee
FB2-6	Oct. 20 (Fri)	15:25-15:40	Oral	P00409	Measurement of Gait Information in Wheeled AssistiveWalker using RGBD Camera	Prof. Seonghee Jeong
FB3-1	Oct. 20 (Fri)	14:10-14:25	Oral	P00069	A study on occlusion removal technology using integral imaging with semantic segmentation and predictive labeling.	Dr. Hyun-Woo Kim, Prof. Jong-Hoon Huh, Prof. Min-Chul Lee
FB3-2	Oct. 20 (Fri)	14:25-14:40	Oral	P00072	Improvement of depth mapping and occlusion removal method using integral imaging	Mr. Haruka Sakanoue, Dr. Hyun-Woo Kim, Prof. Myungjin Cho, Prof. Min-Chul Lee
FB3-3	Oct. 20 (Fri)	14:40-14:55	Oral	P00095	Noise removal in scattering media environment using Peplography and DCLGAN	Mr. Riki Numata, Dr. Hyun-Woo Kim, Mr. Seiya Ono, Prof. Myungjin Cho, Prof. Min-Chul Lee
FB3-4	Oct. 20 (Fri)	14:55-15:10	Oral	P00129	Writing test with image processing technique	Dr. Anuntapat Anuntachai, Mr. Natte Raksadawan, Graduate Student Kamolchanok Charoy-Boon, Graduate Student Nattakan Kruesang
FB3-5	Oct. 20 (Fri)	15:10-15:25	Oral	P00277	A method for estimating Time To Collision from local expansion rate of moving images obtained directly using the spatio-temporal	Mr. Ryotaro Morikawa, Dr. Teruo Yamaguchi
FB3-6	Oct. 20 (Fri)	15:25-15:40	Oral	P00448	Edge Deployment of Vision-based Model for Human Following Robot	Ms. Sumaira Manzoor
FB4-1	Oct. 20 (Fri)	14:10-14:25	Oral	P00054	Identification of Nodular Shadows from CT Images Using Improved CoAtNet Incorporated Clinical Recording	Mr. Yuto Nishitaki, Prof. Tohru Kamiya, Prof. Shoji Kido
FB4-2	Oct. 20 (Fri)	14:25-14:40	Oral	P00055	Classification of Driver Gene Mutations from 3D-CT Images Based on Radiomics Features	Mr. Shion Watanabe, Prof. Tohru Kamiya
FB4-3	Oct. 20 (Fri)	14:40-14:55	Oral	P00067	An Denoising Method Low-Dose CT Image Using IRCNN	Mr. Yuta Sadamatsu, Dr. Seiichi Murakami, Dr. Guangxu Li, Prof. Tohru Kamiya
FB4-4	Oct. 20 (Fri)	14:55-15:10	Oral	P00074	A Detection Method for Nodular Shadows from Temporal Subtraction Images Using A Machine Learning Technique	Ms. Natsuho Baba, Prof. Tohru Kamiya, Dr. Takashi Terasawa, Dr. Takatoshi Aoki, Dr. Shoji Kido
FB5-1	Oct. 20 (Fri)	14:10-14:25	Oral	P00041	Remote Sensing Image Registration Based on Improved Geometric-matching CNN	Mr. Futa Morishima, Prof. Huimin Lu, Prof. Tohru Kamiya
FB5-2	Oct. 20 (Fri)	14:25-14:40	Oral	P00081	Identification of Root resorption on Panoramic X-ray Image Based on EfficientNet	Mr. Keisuke Sakata, Prof. Tohru Kamiya, Prof. Masafumi Oda, Prof. Yasuhiro Morimoto
FB5-3	Oct. 20 (Fri)	14:40-14:55	Oral	P00085	Classification of histological types of primary lung cancer from CT images using clinical information	Mr. Naoya Honda, Prof. Tohru Kamiya, Prof. Shoji Kido

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FB5-4	Oct. 20 (Fri)	14:55-15:10	Oral	P00087	Recognition of Specific Parts of Plastic Bottles Using Improved DeepLab v3+	Mr. Daiki Ideta, Prof. Tohru Kamiya
FB5-5	Oct. 20 (Fri)	15:10-15:25	Oral	P00127	An Image Registration Technique for Brain MR Images Using Linear Transform by 3DCNN	Mr. Seitaro Baba, Prof. Tohru Kamiya
FB6-1	Oct. 20 (Fri)	14:10-14:25	Oral	P00371	Development of a Real-Time Model-based Magnetic Actuation Simulator	Mr. Yeongoh Ko, Mr. Han-Sol Lee, Prof. Chang-Sei Kim
FB6-2	Oct. 20 (Fri)	14:25-14:40	Oral	P00375	Preliminary results on 2D vertebrae instance segmentation methods for interventional pain procedures	Graduate Student Giwan Lee, Graduate Student Sharmin Sultana Sharmee, Prof. Ayoung Hong
FB6-3	Oct. 20 (Fri)	14:40-14:55	Oral	P00378	2D Quasi-Statics Experiment of a Tendon-Driven Discrete Continuum Robot Unit with Ball Socket Joint	Dr. Yeoun-Jae Kim, Mr. Muhammad Umer Khan Niazi, Dr. Daehan Wi, Prof. Youngjin Moon, Prof. Jaesoon Choi
FB6-4	Oct. 20 (Fri)	14:55-15:10	Oral	P00400	Mechanical Impedance Minimizing Control using Disturbance Observer for Single-Degree-of-Freedom Robotic Arm	Mr. Choonggun Kim, Prof. Youngjin Moon, Prof. Jaesoon Choi
FB6-5	Oct. 20 (Fri)	15:10-15:25	Oral	P00462	Kinematics Analysis of Two Types of Five-Bar Linkage Mechanisms with Extended Links for an Eye Surgery Robot	Mr. Chenyu Wang, Prof. Seong Young Ko
FP-1	Oct. 20 (Fri)	14:10-15:10	Poster	P00379	Influence of Control Parameters on Overall Performance of Geared Open Rotor Engine	Dr. Ziyu Zhang, Prof. 晓博 张, Prof. 占学 王
FP-2	Oct. 20 (Fri)	14:10-15:10	Poster	P00380	Empirical Modeling of Variance in Medium Frequency R-Mode Time-of-Arrival Measurements	Mr. Jaewon Yu, Dr. Pyo-Woong Son
FP-3	Oct. 20 (Fri)	14:10-15:10	Poster	P00384	Robust Attitude Stabilization of Quadrotor via Adaptive Control based on Quaternion	Mr. Dohyun Eom, Mr. Jeonghyun Byun, Prof. H. Jin Kim
FP-4	Oct. 20 (Fri)	14:10-15:10	Poster	P00386	Analysis of Power Network Stabilities Considering the Uncertainty of Large Renewable Power Generations	Graduate Student Haesong Cho, Graduate Student Sung-Wook Yi, Prof. Dohoon Kwon
FP-5	Oct. 20 (Fri)	14:10-15:10	Poster	P00399	Development of an Automated Program for the Radioisotope Separation and Purification System	Mr. Jinsik Ju, Dr. Junyoung Lee, Dr. Jeonghoon Park, Prof. Pilwon Hur, Dr. Mingoo Hur
FP-6	Oct. 20 (Fri)	14:10-15:10	Poster	P00404	The Road Estimation of The Vehicle Motion	Mr. Jeongku Kim, Prof. Seul Jung
FP-7	Oct. 20 (Fri)	14:10-15:10	Poster	P00415	Trajectory-based Active Inverse Reinforcement Learning for Learning from Demonstration	Ms. Sehee Kweon, Mr. Himchan Hwang, Prof. Frank C. Park
FP-8	Oct. 20 (Fri)	14:10-15:10	Poster	P00417	Simulation study of Model Predictive Control on multi-rotor UAV with mass uncertainty	Ms. Lucile Orhan, Graduate Student Dongjae Lee, Graduate Student Byeongjun Kim, Prof. H. Jin Kim
FP-9	Oct. 20 (Fri)	14:10-15:10	Poster	P00418	Finite Element Analysis for Torsional Stiffness of Harmonic Drive Assembly Model	Mr. Hankun Yeon, Dr. Joo Han Kim, Dr. Myungsung Lee, Mr. Dong Ju Lee
FP-10	Oct. 20 (Fri)	14:10-15:10	Poster	P00426	Trajectory Generation with Linear Model Predict Control Method in Stair Walking	Mr. Jehwi Yoo, Prof. Juhoon Back, Mr. Doyoun Kim
FP-11	Oct. 20 (Fri)	14:10-15:10	Poster	P00430	Steel Rebar Yield-Point Prediction Model for Automated Quality Inspection in Tempcore Process	Ms. Yejin Kim, Prof. Young-Keun Kim
FP-12	Oct. 20 (Fri)	14:10-15:10	Poster	P00438	Development of Smart-rubber Based Resonance Tuning Module for Bladeless Wind Turbine System	Mr. Heeyun Kang, Prof. Young-Keun Kim
FP-13	Oct. 20 (Fri)	14:10-15:10	Poster	P00450	Zero-Dynamics Attack in DC-DC Converter and Defense Techniques using Generalized Hold: a dissemination version	Mr. Bumsu Kim, Mr. Seunghyeok Baek, Dr. Juwon Lee, Prof. Juhoon Back
FP-14	Oct. 20 (Fri)	14:10-15:10	Poster	P00466	Force-Tracking Performance Enhancing Hybrid Motion/Force Controller for Multicopter-Based Aerial Manipulator	Mr. Jeonghyun Byun, Prof. H. Jin Kim
FP-15	Oct. 20 (Fri)	14:10-15:10	Poster	P00468	Development of Holonic Autonomous Mobile Robot for Drilling Tasks	Ms. Da Yeon Yang, Dr. Chanyoung Ju
FP-16	Oct. 20 (Fri)	14:10-15:10	Poster	P00470	Research on safety requirements for operating mobile robots in outdoor environments_ICCAS2023	Ms. Hyeji Choi

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FP-17	Oct. 20 (Fri)	14:10-15:10	Poster	P00160	A Preliminary Research on Endoscope System Control of Surgical Robots Using Hand-Tracking	Mr. Jae Woo Shim, Mr. Young Gyun Kim, Mr. Jong Hyeon Lee, Mr. Sungwoo Park, Dr. Geunwu Gimm, Prof. Ayoung Kim, Prof. Minwoo Cho,
FP-18	Oct. 20 (Fri)	14:10-15:10	Poster	P00161	Integrity Heuristic as Tie-Breaking for Classical Task Planning	Dr. Joonmyun Cho, Dr. Hyonyoung Han
FP-19	Oct. 20 (Fri)	14:10-15:10	Poster	P00165	Order Reduction Positioning for Servo Motors Based on Active Disturbance Rejection Control Technique	Mr. Hyo Chan Lee, Prof. Yonghun Kim
FP-20	Oct. 20 (Fri)	14:10-15:10	Poster	P00166	Reinforcement Learning based Sequential Multi-Robot Task Allocation Considering Weight of Objects and Payload of Robots	Ms. Na-Hyun Lee, Dr. Taeyoung Uhm, Mr. Ji-Hyun Park, Mr. Kyoungseok Noh, Dr. Hyo-Gon Kim
FP-21	Oct. 20 (Fri)	14:10-15:10	Poster	P00168	Standardization Method for Evaluating the Performance of Multiple Obstacles Avoidance of Autonomous Mobile Robot	Mr. Keunhwan Kim, Mr. Dong Yeop Kim, Dr. Jung-Hoon Hwang
FP-22	Oct. 20 (Fri)	14:10-15:10	Poster	P00172	Study of the Reliability test method for Agricultural Robot Drive Motor	Dr. Kyoung Chul Kim, Dr. Youngki Hong, Dr. Gookhwan Kim, Mr. Kyeong-Do Kwon, Dr. Changju Yang, Dr. Ki-Beom Lee, Dr. Kangjin Lee
FP-23	Oct. 20 (Fri)	14:10-15:10	Poster	P00175	Enhancing Depth Image with Richer Convolution Feature for Improved Perception	Mr. Donggil You, Mr. Jihoon Jung, Mr. Jusang Jeong, Prof. Junghyun Oh
FP-24	Oct. 20 (Fri)	14:10-15:10	Poster	P00197	Development of an In-situ Underwater Microscope Using Flow-blocking Mechanism for Robust Plankton Observation	Dr. Minsung Sung, Mr. Young-Woon Song, Mr. Sehwan Rho, Mr. Seokyong Song, Prof. Son-Cheol Yu
FP-25	Oct. 20 (Fri)	14:10-15:10	Poster	P00203	Multi-scale Similarity Learning for Age Estimation based on Facial Images	Ms. Sevara Amirullaeva, Prof. Ji-Hyeong Han
FP-26	Oct. 20 (Fri)	14:10-15:10	Poster	P00209	Smoke Detection in an invisible environment	Mr. Min Cheol Park, Mr. Shin Dong In, Dr. Hwang Jung Hoon
FP-27	Oct. 20 (Fri)	14:10-15:10	Poster	P00212	Urban Scene Editing with Diffusion Model using Segmentation Mask	Mr. Minhoo Park, Dr. Dong-Oh Kang
FP-28	Oct. 20 (Fri)	14:10-15:10	Poster	P00213	Fuzzy Logic and Neural Network-Based Intelligent Control System for Quadruped Robot on Extreme Terrain	Mr. Jinwoo Jeon, Prof. Hyun Myung
FP-29	Oct. 20 (Fri)	14:10-15:10	Poster	P00218	Counterbalance Mechanism Based on a Gas Spring for Ceiling-Mounted Robot Arm Carrying Heavy Payloads	Mr. Jaewon Park, Mr. Do-Won Kim, Prof. Jae-Bok Song
FP-30	Oct. 20 (Fri)	14:10-15:10	Poster	P00220	Passive Two-Way Ratchet Brake Applicable to the Roll Axis of Weight Assist Device	Mr. Chanuk Jeon, Prof. Jae-Bok Song
FP-31	Oct. 20 (Fri)	14:10-15:10	Poster	P00221	Part-Attention Based RGB-Infrared Person Re-Identification Network	Mr. Taemoon Seo, Prof. Dongjoong Kang
FP-32	Oct. 20 (Fri)	14:10-15:10	Poster	P00223	2.5D SLAM Algorithm with Novel Data Fusion Method Between 2D-Lidar and Camera	Mr. Sanghyeon Oh, Mr. Dong Hwan Kwak, Mr. Hyun Tek Lim
FP-33	Oct. 20 (Fri)	14:10-15:10	Poster	P00228	Development of a Gait Measurement System based on a Human-Following Mobile Robot	Ms. Eun-Ju Ha, Ms. Jin-Young Choi, Ms. Min-Ji Son, Dr. Jean-Hong Jeon, Ms. A-Hyeon Kim, Ms. Su-Jin Baek, Prof. Jong-Wook Kim
FP-34	Oct. 20 (Fri)	14:10-15:10	Poster	P00230	Design and Implementation of a Pneumatic Actuator for Robotic Arm Control	Mr. Jae Hyuck Jang, Prof. Hugo Rodrigue
FP-35	Oct. 20 (Fri)	14:10-15:10	Poster	P00231	Bidirectional Auxetic Structures using Nitinol Shape Memory Alloys sheet	Mr. Yeongjae Park, Prof. Hugo Rodrigue
FP-36	Oct. 20 (Fri)	14:10-15:10	Poster	P00236	Fuzzy Inference System for Improving the Input Shaping Control for a Flexible Beam	Dr. Phuong-Tung Pham, Prof. Quoc Chi Nguyen, Graduate Student Sohyeon Yoo, Prof. Keum-Shik Hong
FP-37	Oct. 20 (Fri)	14:10-15:10	Poster	P00242	A study on semantic map generation for tableware collection in mobile manipulators	Dr. Taeyoung Uhm, Mr. Jung-Woo Park, Mr. Gi-Deok Bae, Mr. Sung-Jo Yun, Dr. Hyo-Gon Kim
FP-38	Oct. 20 (Fri)	14:10-15:10	Poster	P00244	A Study on the Headlamp Defect Detection System Based on Hybrid Machine Vision	Prof. Youngkuk Kwon
FP-39	Oct. 20 (Fri)	14:10-15:10	Poster	P00246	Traffic Light Recognition in Autonomous Driving: Comparison of YOLOv7 and CenterNet2 with HSV Post-Processing	Ms. Dayoung Kim, Prof. Xingyou Li, Mr. Shokhrkh Miraliev, Mr. Shakhboz Abdigapporov, Mr. Hyoungrae Kim, Dr. Hakil Kim

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FP-40	Oct. 20 (Fri)	14:10-15:10	Poster	P00260	Proposing a Method for Enhancing Denoising Models through Timestep-Aware Discriminator for Diffusion-Based Image	Mr. Jong U Kim, Prof. Dong-Joong Kang
FP-41	Oct. 20 (Fri)	14:10-15:10	Poster	P00261	Global Practical Tracking via Adaptive Event-triggered Output Feedback for Nonlinear Systems with Function Control	Ms. Yu Zhang, Dr. Shaoli Jin, Dr. Hui Li
FP-42	Oct. 20 (Fri)	14:10-15:10	Poster	P00263	Development of Adaptive Model Predictive Control using Radial Basis Function Neural Network Approximator for Autonomous	Mr. Hakjo Kim, Prof. Seok_Cheol Kee
FP-43	Oct. 20 (Fri)	14:10-15:10	Poster	P00265	Robust Tracking Controller with Integral Action Design Method for UAVs via Linear Matrix Inequality Approach	Mr. Seung Joo Kim, Mr. Geun Yeong Yang, Mr. Yong Jun Lee, Prof. Hyunduck Choi, Prof. Myo Taeg Lim
FP-44	Oct. 20 (Fri)	14:10-15:10	Poster	P00266	Direct data-driven feedforward controller design based on sparse modelling approach for two-degree-of-freedom control system	Dr. Motoya Suzuki
FP-45	Oct. 20 (Fri)	14:10-15:10	Poster	P00267	Iterative Pruning of Neural Network with Self-Distillation	Dr. Jonghee Park, Mr. Hojong Shin, Mr. Jonghoon Kwak
FP-46	Oct. 20 (Fri)	14:10-15:10	Poster	P00083	Improved 1vs1 Air Combat Model With Self-Play Soft Actor-Critic and Sparse Rewards	Mr. Hoseong Jung, Dr. Yong-Duk Kim
FP-47	Oct. 20 (Fri)	14:10-15:10	Poster	P00010	Research Trend Analysis of Multi-Task Behavior Cloning for Robot Manipulation	Mr. Sunggil Park, Mr. Woo Jin Ahn, Mr. Seong Woo Kang, Prof. Myo Taeg Lim
FP-48	Oct. 20 (Fri)	14:10-15:10	Poster	P00376	A Study on Learning Control of Mobile Robot with three Wheel Based on Voice Recognition for Smart Factory	Prof. Sunghyun Han, Dr. Oh-Deug Im, Dr. Heejin Kim, Mr. Kyu-Weon Kim
FP-49	Oct. 20 (Fri)	14:10-15:10	Poster	P00377	A Study on Intelligent Control of Robot Manipualator with Eight Joints for Smart Factory	Prof. Sunghyun Han, Dr. Hee-Jin Kim, Dr. Yang-Kweun Jeong, Dr. Oh-Deog Im