

Paper No.	Session Code	Paper Title
160054	MA01	Development of Micro Air Vehicle Using Aerial Photography for Safe Rowing and Coaching
160129	MA01	Prototype Development of On-Board Vision Processing Micro Air Vehicle for Wide-Range Monocular SLAM
160061	MA01	Resource-Constrained Decentralized Active Sensing using Distributed Gaussian Processes for Multi-Robots
160201	MA01	Mechanism and Neural Network Based on PID Control of Quadcopter
160307	MA01	A Method for Measuring the Position of Quadrotors Using a Tether Winder
160068	MA02	Nonlinear Stochastic Time-varying System Identification Based on Multi-dimensional Taylor Network with Optimal Structure
160133	MA02	A preliminary result on system identification of a floating offshore wind turbine
160049	MA02	Evaluation of Steering Model depending on Gazing Distance by using Driving Simulator
160106	MA02	Estimation Problem for Network Model at State and Measurements Attacks and Information Cost Criterion
160289	MA02	Road Roughness Modelling by Using Spectral Factorization Methods
160315	MA03	Design Method of Integrated SMA Leg for Small sized six legged robot
160045	MA03	Multi-Input Multi-Output Adaptive Torque Control of 9-DOF Hyper-Redundant Robotic Arm
160190	MA03	A Tension Distribution Algorithm for Cable-Driven Parallel Robots Operating Beyond their Wrench-Feasible Workspace
160303	MA03	Mechanism and Base Control of Human-Friendly Robot with Passive Collision Force Suppression Mechanism
160359	MA03	Simultaneous Dual-arm Motion Planning for Pick-up and Place
160158	MA04	Motions Analysis Based Human Friendly Patient Transportation System
160386	MA04	A three-dimensional surface registration method using a spherical unwrapping method and HK curvature descriptors for patient-to-CT registration of image guided surgery
160234	MA04	Design of Position and Force Sensors of the Haptic Interface for Training Simulation of Radial Artery Puncture
160321	MA04	Lower limb rehabilitation platform for tailor-made exercise planning and execution
160387	MA04	A Light-weight Robot End-effector for Biopsy Procedure Automation with Spring-Triggered Biopsy Gun Mechanism
160279	MA04	Robot-assisted Medical Tele-echography System in WAN Environment: Pre-experimental Results
160113	MA05	Comparison of faster R-CNN models for object detection
160141	MA05	Occlusion-Robust Segmentation for Multiple Objects using a Micro Air Vehicle
160052	MA05	3D Reconstruction of Structures using Spherical Cameras with Small Motion
160218	MA05	Parallel optical flow estimation with capturing images in real time
160084	MA05	Exposure Correction and Image Blending for Planar Panorama Stitching
160366	MA05	Non-contact Gap and Flush Measurement using Monocular Structured Light Vision
160320	MA06	Active Disturbance Rejection Control for Multi-operating Condition System
160281	MA06	Active disturbance rejection controller for loitering unit with parameter uncertainty
160181	MA06	GMV Control Algorithm for civil engineering Structures under Bidirectional Earthquakes using Decentralized model
160314	MA06	Adaptive Non-Backstepping Neural Control for a Class of Uncertain Nonlinear Systems with Unknown Time-Delay
160367	MA06	Cascade Control Design of Linear Model Predictive Control and PI Control for Industrial Boilers
160269	MA06	Self-tuning Fuzzy Logic PID Controller Design Based on Smith Predictor for Heating System
160270	MA07	An Optimal controller for an Electro-hydraulic System
160165	MA07	Study on Energy Regeneration of Hybrid Hydraulic Excavator using Hydraulic Transformer
160046	MA07	Hydraulic Circuit Analysis for the Electro-Hydrostatic Actuator System
160237	MA07	A study on modeling of a hybrid wind wave energy converter system
160262	MA07	Adaptive Grey Predictor-based Controller for Force Control of EHA System
160267	MB01	Autonomous Tracking and Navigation Controller for an Unmanned Aerial Vehicle Based on Visual Data for Inspection of Oil and Gas Pipelines
160191	MB01	Passivity-Based Quaternion Feedback Control of a Hover System
160335	MB01	Intelligent UAV in Smart Cities using IoT
160249	MB01	Development of Pipe Inspection Robot using Ring-type Laser
160079	MB01	Path tracking control and identification of tire parameters using on-line model-based reinforcement learning

160308	MB01	The Stabilization of Attitude of a Manta Robot by a Mechanism for Moving the Center of Gravity and Improvement of Diving Ability
160329	MB02	Decentralized control strategy of a fuel cell/secondary storage element power supply system
160139	MB02	Bio Fuel Injection and Generated Voltage Change of Series Hybrid Electric Vehicle with Plant Oil Electric Generator
160021	MB02	Small Compact Standing Ride-type Electric Vehicle for Shopping
160255	MB02	Data Gathering System for Rescue Operations using ZigBee and Bluetooth
160254	MB02	Motion Detecting Method for Rescue Operation using Neural Network
160019	MB03	Experiment of Robust Driving Assistance Control for Skid Steer Welfare Vehicle using Model Error Compensator
160353	MB03	Motion Control of a Powered Wheelchair using a Gazing Feature in an Environment
160127	MB03	Path Smoothing Extension for Various Robot Path Planners
160256	MB03	Robot Collaboration in Warehouse
160059	MB03	Generation of Locally Optimal Trajectory against Moving Obstacles using Gaussian Sampling
160156	MB03	Path planning for autonomous mobile robots with mobility and threat information
160382	MB04	Master-Slave Teleoperation-Based Catheter Ablation Robot System for Arrhythmia
160162	MB04	Ultrasonic-based impinger system for bioaerosol collection
160252	MB04	A Pneumatic Haptic Module for Simulation of Catheters Used in Gastrointestinal Endoscopy
160207	MB04	Novel Seat Position Stabilizing Function for an Electric Wheelchair Based on Passively Controlled Pendulum Mechanism
160282	MB04	Stair-Walk Motion Analysis for Stair-Walking Function of Robotic Gait Trainer
160284	MB04	Experimental Validation of a Newly Designed Ankle-Foot Prosthesis for Lower Limb Amputee
160040	MB05	Band Selection for Plastic Classification using NIR Hyperspectral Image
160275	MB05	Multiple Threading Strategy for Intelligent Surveillance System
160192	MB05	Efficient Object Recognition for Industrial Inspection
160027	MB05	Extrinsic calibration of a camera and laser range finder
160132	MB06	Safety Enhancement for Personal Mobility Vehicles
160311	MB06	Mathematical modeling of kinematics and control strategies for riding-type rice transplanter
160301	MB06	U-turn Motion Planner for Autonomous Navigation System
160306	MB06	Experimental Results on Visual Inspection of Underwater Structures using Remotely Operated Underwater Vehicle
160228	MB06	3D Point Cloud Reduction by Fractal Bubble Method
160309	MC01	Fusion of Multiple Sensor Measurements for Navigation of an Unmanned Marine Surface Vehicle
160411	MC01	Visual Tracking of Objects for Unmanned Surface Vehicle Navigation
160425	MC01	Underground pipeline tracking robot development based on magnetic inductive sensor
160395	MC01	An adaptive Dynamics Control of Underwater Vehicle Based on Velocity Servo Loop
160081	MC02	Star Redundant System for Visible Light Communication
160172	MC02	A Retrofitting Concept for Integration of Machinery with Legacy Interfaces into Cloud Manufacturing Architectures
160272	MC02	Real-Time Monitoring and Reporting Alarm System for pH Measurement in Wet Scrubbers
160114	MC02	Robust Repetitive Control with Feedforward Scheme for Stand-Alone Inverter
160055	MC02	Lyapunov Stability Criterion to Control Strategy with PI Controller of Doubly Fed Induction Generators in Variable-Speed of Wind Turbine Energy Conversion Optimization
160257	MC03	Group robot control in non-deterministic environments using the potential field method
160246	MC03	Autonomous Robot Driving Decision Strategy Following Road Signs And Traffic Rules : Simulation Validation
160029	MC03	An Application of Pareto Solution with Adapted ACO for Searching Optimal Route of a Mobile Robot in Rough Terrain Environment
160051	MC03	An Artificial Immune System for Fault Tolerant Control of an Over-Actuated Rover
160219	MC03	Improvement of optical flow obtained by compensation method using multilayer resolution structure
160094	MC03	A Feasibility Study of Vehicle Pose Estimation using Road Sign Information
160241	MC04	Rehabilitation Support Robot for Self-Standing-Up Training of Hemiplegic Stroke Patients: An Analysis of Therapist Guiding Motion
160243	MC04	Verification of Recovery Effect on Motor Function of Plegic Upper Limb after Stroke by UR-System 2
160338	MC04	Shape optimization of a novel ligation tool using a concentric tube mechanism

160205	MC04	Design of a Wearable Hand Rehabilitation System for Quantitative Evaluation of the Stroke Hand
160238	MC04	Improvement of non-invasive semi-automatic test device for measurement of finger joints range of motion: Reduction in Burden on Therapist
160026	MC05	Mapping using stereo system
160030	MC05	A Survey on Applications of High Dynamic Range Technologies in Consumer Electronic Devices
160233	MC05	Image-based 3-axis force estimation of a touch sensor with soft material
160370	MC05	Development of Vision System for Defect Inspection of Electric Parts
160296	MC06	The Theoretical Framework of Robot Education in Human Robot Interaction
160163	MC06	Investigation of initial dip in mental arithmetic task: an fNIRS study
160382	MC06	<i>Master-Slave Teleoperation-Based Catheter Ablation Robot System for Arrhythmia</i>
160206	TA01	Model-inverse Time Delay Control (MiTDC) for Force Control
160227	TA01	Arbitrarily large gain/phase margin can be achieved by DOB-based controller design
160213	TA01	H ₂ Control for Discrete-time Markovian Jump Fuzzy Systems with Partly Known Transition
160144	TA01	Novel Distributed Hybrid Nonlinear Filtering Method for Robust Localization Using Wireless Sensor Networks
160253	TA01	A Robust Tracking Controller for Robot Manipulators using Disturbance Observer
160138	TA01	Dynamic Analysis of Series Elastic Actuator in Terms of Controller Design
160428	TA02	Plan and History of the Tech-campaign of Hankook Tire Co., Ltd.
160436	TA02	Development of the Ball Segway Platform
160121	TA02	Balancing and Translation Control of a Ball Segway That a Human Can Ride
160426	TA02	Modeling and Control system Design of a Ball Segway
160157	TA03	Synergetic Control for HIV Infection System of CD4+T Cells
160107	TA03	On Multivariate Method of Qualitative Analysis of Hodgkin-Huxley Model with Decision Tree Induction
160391	TA03	The Evolution Mechanism Analysis of Regional Industrial Network
160111	TA03	Methods of Monitoring, Analysis and Short-term Prognosis of Gas Consumption Taking into Consideration its Cyclic and Non-stationary Structure in Heating Season
160080	TA03	Optimal placement of collocated actuators and sensors for active vibration control of cable-network antenna reflectors
160147	TA03	A Framework and Test Bed for the Single-Living Senior Citizens Care : Access and Grave site Monitorings
160327	TA04	Development of flexible electrostatic adhesive device that can equip in multicopter
160186	TA04	Comparison and Estimation of Reaction Force of End Effector of 1-DOF Manipulator using PDSPO and SMCSPO without Sensor
160313	TA04	Study of the drive-timing for a standup motion-supporting mechanism for the elderly
160385	TA04	A Study of Candle Sticker Attachment Task by Dual Arm Robot System
160168	TA04	SMCSPO Based Reaction Force Estimation for 7 DOF Robot Arm
160373	TA04	Arrangement of Haptic Device with Multi-Function for Teleoperation
160154	TA05	Control of Switched Asynchronous Machines with Application to Dual Counters
160264	TA05	Development of a wearable soft sensor system for measuring finger motions
160071	TA05	The measurement uncertainty evaluation of yaw sensor calibration
160025	TA05	The Application of Yaw Sensor Measuring Carriage System
160016	TA05	Multi-point Fuzzy Prediction for Load Forecasting in Green Buildings
160077	TA06	Velocity Maximizing Suboptimal Control Law for Agile Turn of Air-to-Air Missiles
160009	TA06	Observer Motion Controls for Multiple Targets Considering Doppler-Bearing Measurements
160204	TA06	Terrain relative navigation for precise lunar landing using crater matching algorithm
160259	TA06	Optimal Design on Policies of Industrial Eco-Economic System in China under the Constraint of Energy Saving and Carbon Emission
160088	TA06	The Developing Tool for Heat Exchanger Education in Instrumentation Engineering
160023	TA06	Design of functional safety model for tail gas treating process
160365	TA07	Application of Calibration for Bin-Picking in Cell Production System with Multi Dual-arm Robots
160358	TA07	Easy Estimation Method of Dynamic Parameters of Robots using Newton-Euler Formulation Regeressor with Translated Coordinate
160119	TA07	Dynamic Analysis for Human-Robot Collision and Robot Safety Index
160439	TA07	Posture Invariant Object Recognition Using Geometric and Statistical Features

160444	TA07	The development of robot manipulator with joint torque sensor based on force control
160298	TC01	Laguerre based design of fractional-order PD controller
160020	TC01	Reset Control of Pressure-Drop Oscillations in Boiling Micro-Channel Systems
160295	TC01	Proposal of Vibration Control by Varying Stiffness in Repulsive Magnetic Bearing Using the Motion Control of Permanent Magnets
160098	TC01	An Improved Algorithm for Computing Transfer Function Matrices of Descriptor Systems
160115	TC01	Robust PID Controller Design Using Convex-Concave Optimization: Application to an Unstable
160043	TC01	Dynamics and Vibrational Control of an Underwater Inverted Pendulum
160097	TC02	Tracking of Multiple Moving Targets using Mobile Networks based on Mutual Information
160242	TC02	Delay Effects on Secondary Frequency Control of Micro-grids based on Networked Multi-agent
160036	TC02	Distributed coordination for optimal energy flow in smart grid networks: High-order polynomial
160173	TC02	Healthcare System for Elders with Automatic Drug Label Detection
160134	TC02	On Development of Train Control and Signaling Simulation
160294	TC03	Design of Switching State Observer for Irregularly Delayed Measurement
160179	TC03	A preliminary study on gain-scheduled model predictive control of floating offshore wind turbines
160316	TC03	Combined Feedforward/Disturbance Observer-Based Control of Pump-Controlled Electro-Hydrostatic Actuation System
160355	TC03	Robust performance optimization for structural uncertainties in data-driven regulatory control parameter tuning
160368	TC03	The model-free PID gain tuning for regulatory control based on generalized minimum variance evaluation with a feedforward compensator
160076	TC03	Fuzzy Compensation Technique for Cooperative Control between Two Actuators of an One-wheel Robot
160302	TC04	Analysis of Pedestrian Collision Risk using Fuzzy Inference Model
160340	TC04	Development of multicopter that equipped with semi-auto control
160143	TC04	Dense Optical Flow in Stabilized Scenes for Moving Object Detection from a Moving Camera
160372	TC04	Fundamental numerical and experimental evaluation of attitude recovery control for a quad tilt rotor UAV against disturbance
160357	TC04	Flight Planning for Photovoltaic-Plant Inspection by Unmanned Aerial Vehicle
160006	TC05	Further Improvement on Phase-Compensating-System Design
160063	TC05	Automatic Segmentation of Cell Candidate Regions in Microscopy Images Based on an Optimization Algorithm
160062	TC05	Extraction of GGO candidate regions from the LIDC database using deep learning
160332	TC05	Pilot Hand Detecting and Tracking in the cockpit based on Depth Image Using the Intel RealSense Camera
160008	TC05	A Combination of Independent Component Analysis, Relative Wavelet Energy, and Support Vector Machine for Mental State Classification
160273	WA01	Self-Tuning Control with Neural Network for Robot Manipulator
160374	WA01	Simulation Control of an Active Suspension System Using Fuzzy control & H_∞ Control Methods
160222	WA01	The Stabilization Condition of Continuous Affine Fuzzy Systems Under Imperfect Premise Matching
160336	WA01	Medical Decision Making Diagnosis System Integrating k-means and Naïve Bayes algorithms
160197	WA01	Autonomous Offshore Container Crane System Using a Fuzzy-PD Logic Controller
160057	WA01	Fuzzy Logic Model for Degumming and Bleaching Troubleshooting in Palm Oil Refining
160177	WA02	Face-Machine Interface (FMI) for Communication of Patients with Amyotrophic Lateral Sclerosis
160195	WA02	Threeclass Classification of fNIRS Signals for RGB Color Stimulus in Visual Cortex
160196	WA02	Bundled-Optode Method for Detection of Brain Activity in Functional Near-Infrared Spectroscopy
160325	WA02	A Simulation Study on Decoding Algorithms for Brain-Machine Interfaces with the Non-Stationary Neuronal Ensemble Activity
160163	WA02	<i>Investigation of initial dip in mental arithmetic task: an fNIRS study</i>
160265	WA03	Gait Pattern Generation under Disturbance Force
160247	WA03	Mechanism and Jumping Pattern of One-Legged Jumping Robot with Pneumatic Actuators
160160	WA03	Gesture Reconfiguration from Joint Failure using Genetic Algorithm
160053	WA03	A nonlinear H_∞ control approach for autonomous navigation of underactuated vessels
160066	WA03	Development of a Human Detecting System Based on Three-Dimensional Point Cloud - Proposal of a Detecting Method in the Vicinity of a Sensor (about 0.3m~5m) -
160229	WA03	Safety Integrity Evaluation of Human Detection Systems

160404	WA04	Preliminary experimental results for neck injury in mobile robot-human constrained-collision
160403	WA04	Assessment of chest injury in unconstraint frontal collision between human-mobile robot using CTI and VC index: Preliminary results by MADYMO simulation
160402	WA04	Pressure ulcer breakout time estimation model in association with wearable robot use : first analysis
160418	WA04	Human Injury Estimation Approach for Human-Robot Collision Safety
160419	WA04	Experimental Study to Determine Quasi-Static Constitutive Parameters of the Pig-skin for Robot Collision Safety Estimation
160149	WA05	Systems Engineering Approach to Designing Smart Condition Monitoring Systems for Smart Manufacturing
160312	WA05	Vibration control of a strip in a Continuous Galvanizing Line using Self-Tuning Neuro-PID controller
160199	WA05	Deep learning based modeling for the lateral movement of a strip in hot finishing mill
160330	WA05	Control Methodology for Stabilized Strip Tracking in Tandem Cold Strip Mill System
160412	WA05	Localization of slab identification numbers using deep learning
160166	WA06	Comparison of Piezoelectric Limit Sensors with FEM Analysis Results of Compression Failure of Brick Masonry Specimens
160060	WA06	An Improved Hybrid Multilevel Converter Topology as a Utility Interface for Photovoltaic Systems
160028	WA06	Robust Discrete-time Control for Uncertain time-delay Systems with Nonlinearities Under Hölder Continuity
160333	WA06	Static Properties of Bayesian Inference on Phase Unwrapping for Remote Sensing Using SAR Interferometry
160135	WA06	Dynamic Set Point Feedback Control using Steady State Detection
160271	WA06	Nonlinear Control of Thermoacoustic Oscillations in Rijke-Type Systems
160039	WB01	Continuous Finite-Time Fault-Tolerant Control for a Class of Nonlinear Systems
160169	WB01	Pedestrians and Vehicles Recognition Based on Image Recognition and Laser Distance Detection
160283	WB01	Learning Human-Robot Collaboration with POMDP
160152	WB01	A Design of IOT platform for Environment Monitoring
160153	WB01	A Guidance Control Design for Golf-Cart
160145	WB01	Hybrid Visual Servoing Design for a Continuum Robot under Visibility Constraint and Voice
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160288	WB02	On Extended State Predictor Observer based Active Disturbance Rejection Control for Uncertain Systems with Sensor Delay
160188	WB02	Tuning ADRC for Multi-Variable System Based on Existing PID Parameters
160293	WB02	Disturbance Rejection of Steam Superheated Temperature in a Utility Boiler: A Cascaded Disturbance Observer based Control Solution
160290	WB02	Active Disturbance Rejection Control for Nanopositioning Systems with Piezoelectric Actuators
160033	WB02	Active Disturbance Rejection Control for Fluidized Bed Combustor
160182	WB03	Circumventing the Fundamental Tradeoff Between Stability and Performance in Haptic Rendering - Successive Force Augment Approach
160131	WB03	Mobile Robot Navigation for Human-Robot Social Interaction
160319	WB03	Detecting Pilot's Utterance: An Adaptive Keyword Spotting Approach
160013	WB03	N-best List Re-ranking Using Syntactic Score: An Approach for Improving Speech Recognition Accuracy in Air Traffic Control
160014	WB03	N-best List Re-ranking Using Semantic Relatedness and Syntactic Score: An Approach for Improving Speech Recognition Accuracy in Air Traffic Control
160142	WB04	Array of Touch Sensor: Elimination of Shadowing-Effect for Robotic Applications
160277	WB04	Computational Modeling of Actin Network Organization under Mechanical Flow
160209	WB04	Position Control of Thermistor-embedded Twisted and Coiled Polymer Actuator
160235	WB04	Efficient Cooling of Thermally-Actuated Soft Actuators Using Carbon Nanocomposites
160185	WB04	Fabrication of High-resolution Bridge-like 3D Interconnects using Electrohydrodynamic Inkjet Printing
160211	WB04	Biomimetic Skin-type Shear Sensor
160305	WB05	A Comparative Study of Foreground Detection using Gaussian Mixture Models- Novice to Novel
160069	WB05	PID Compensating Model for Design of Ship's Autopilot
160339	WB05	Performance Evaluation of Tactile Sensor-based Grip Control using 3D-printed Flexible Tactile
160343	WB05	ion Segmentation and Classification Using Convolutional Neural Network
160350	WB05	A Video Based People Counting Using Detection and Tracking Algorithm
160431	WB05	Video Based Gender Recognition Using Convolutional Neural Network In Night Time

160117	WB06	3D-Odometry Using Tactile Wheels and Gyros: Localization Simulation of a Bike Robot
160035	WB06	Performance Estimation of Time-series Prediction on Environmental Factors Using Multiple Similar Time-series Due to Mean-field Analysis Via Random Couplings and Fields
160146	WB06	Evaluation of Transmission Quality of Visible Light Communication using Bit Error Rate Measurement
160102	WB06	Statistical Analysis of Feminine Movements in Japanese Traditional Dance
160215	WB06	Individual Identification by Gait Vibration Data Transmitted Floor
160086	WB06	Probability Distribution of an Image Dictionary for Compressed Sensing
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160300	TP	Robust stability of spacecraft traffic control system using Lyapunov functions
160038	TP	Comparison Study of Time Delay Control (TDC) and Uncertainty and Disturbance Estimation (UDE) Based Control
160280	TP	A Controller Reduction via Structurally Balanced Truncation using Coprime Factorization
160433	TP	Gravity Compensation Control and Force Control of Surgical Master Device
160434	TP	Adaptive Control Using Time Delay Control for Synchronization of Chaotic Systems
160276	TP	Control and Structure of a 6-DOF Precision Positioning Stage
160136	TP	Path Planning for a Group of Vehicles in 2D Obstructed Environment
160232	TP	Road Profile Estimation for Ground Vehicle based Localization
160123	TP	Mill Load Control System Based on Chaotic Particle Swarm Neural Network
160128	TP	Stability Analysis for Time-Varying Positive Linear Systems with Delays
160244	TP	Numerical Algorithms for Differential-Algebraic Equations of Multibody Dynamics
160291	TP	LQR-based Adaptive Steering Control Algorithm of Multi-Axle Crane for Improving Driver's Steering Efficiency and Dynamic Stability
160318	TP	Research of high response control technology of a moving coil electromechanical converter
160194	TP	Optimized Implementation of a DC-DC Power Converter Modeling and Control Strategy for Efficient Operation of a Photovoltaic Application
160091	TP	The MPPT control of PV system using the Series-connected PI controller
160348	TP	Quantifying benefits of alternative home delivery operations on transport in China
160429	TP	Actuator Selection Methodology for Serial-type Manipulator
160101	TP	Application of EVCA algorithm in dynamic optimisation of the articulated vehicle motion for control of stability
160285	TP	Modeling and PID Control optimization for the crude oil network tanks
160383	TP	Analyses of Unit Gravity Compensators
160048	TP	Design of Planar Static Balancer Using Baranov Truss
160245	TP	Substitution Strategy of the Rolling Contact Joints Kinematics for the Robotic Applications
160037	TP	Control Strategy of an Upper Limb Power-assist Robot for Meal Rehabilitation
160193	TP	Graph SLAM for AGV using Geometrical Arrangement based on Lamp and SURF Features in a Factory Environment
160007	TP	Systematic Design, Analysis, and Control of Mobile Robot Traveling Simulator Using Optical Mice
160175	TP	An Algebraic Condition for the Interior-disjoint of Two Elliptic Robots
160096	TP	Real-time Navigation for Multiple Mobile Robots in Dynamic Environments based on Fuzzy Logic
160050	TP	Mapping and Path Planning using Communication Graph of Unlocalized and Randomly Deployed Robotic Swarm
160304	TP	Multi-floor Localization Method for Mobile Robots Using Elevator
160278	TP	Efficient 3D Mapping with RGB-D Camera Based on Distance Dependent Update
160341	TP	Systematic Approach for Gain Selection of PID Control in Industrial Robot
160198	TP	A Unified Virtual Fixture Model for Haptic Telepresence Systems based on Streaming Point Cloud Data and Implicit Surfaces
160398	TP	Design of Violin-Playing Robot Arm
160118	TP	Skin Color Difference Measurement between Real Faces and Face Images from Display according to Lighting Ratio
160085	TP	Assessment Of Robot Training for Social Cognitive Learning
160430	TP	Robot Arm Control Using an EMG Signal to Aid Hemiplegia Patient
160065	TP	Comparison of Point Feature Matching and Graph Matching for Underwater Scene Matching
160093	TP	Automatic tuning of PID controller by using gain matching method
160074	TP	Neuro-sliding Mode Control for Robot manipulators

160104	TP	Development of Active Stiffness Mechanism for Self-stabilizing Manipulator
160170	TP	Dynamic Analysis of a Flexible Parallel Mechanism Actuated by PAMs
160100	TP	The vision based mind state recognition
160432	TP	Improvement of Face recognition rate while maintaining low FAR Employing a Facial component classification
160384	TP	A Preliminary Result of Web-based User Study on the Emotion Expression of Social Robots
160363	TP	A Multi-level Task Scenarios for Usability Evaluation of Social HRI System
160394	TP	Human Interaction Recognition using Contextual Information
160393	TP	School Safety Management System for Abnormal Situations
160424	TP	Deep Convolution Neural Network using Triplet of Faces for Face Recognition in the Wild
160392	TP	Camera-based localization error estimation method for Kinect sensor calibration using mobile robot
160405	TP	Indoor Understanding Using Augmented Reality Display for Teleoperated Indoor Search and Rescue
160406	TP	Speed Modulation for FES System in Gait Rehabilitation
160407	TP	Conceptual Design Using Heartrate for IFF Device Operation
160410	TP	Evaluation of control console for use in robotic task while simple driving
160443	TP	A study on the Path Planning and Control of Robot Manipulator with Six Joint for Forging Process Application
160442	TP	A syudy on Precise Control of Robot Gripper Based on Pressure Sensor for Forging Automation Process
160441	TP	A Study on Intelligent Control of Mobile Robot with Two Arms for Smart FA
160440	TP	A Syudy on Robust Control of Vertical Articulated Robot Arm Based on Visual Feedback in Working Space
160415	TP	Characterization of a fluid-distributable cell culture module for bioreactor automation
160413	TP	Design of a fluid-controlled cell culture module for automated bioreactor
160414	TP	Unconventional round wound generation methods
160417	TP	Characterization of a wireless gait shoe device with motion and foot pressure sensors for walking pattern recognition
160239	TP	Development and evaluation of ankle muscle trainer with malleolar and subtalar movement actuators and underfoot reaction force sensors during active ankle dorsi-plantarflexion
160110	TP	Bovine Serum Albumin stability in the context of biosensors
160150	TP	Evaluation of the basic reproduction number of MERS-CoV during the 2015 Outbreak in South Korea
160176	TP	A Schematic Design of Wireless Surgical Information Sharing System for Supporting Intelligent Surgery
160105	TP	Multispectral control of water bodies for biological diversity with the index of phytoplankton
160210	TP	A Baseball Game Analysis by an Extraction of Characteristic Play Sequence
160361	TP	A Generic Architecture for Arbitrary View Generation from Various Sources
160317	TP	GNSS Jamming Propagation Prediction Simulator based on ITU-R P.1546 Model
160126	TP	Impact-Angle-Constraint Look Angle Guidance for Miniature Missile
160171	TP	Precise Localization of a Vehicle within a Driving Lane by Combining the Vehicle Trajectory with Vision Information
160344	TP	Autonomous Navigation and Map building Using an ultrasonic sensor and beacons.
160095	TP	Attitude determination and disturbance estimation based on adaptive Kalman filter for nano-satellite
160214	TP	TLE Data-based Precise Estimation of Satellite's Orbital Parameters
160364	TP	Efficient Path Planning Algorithm for Indoor Mobile Robot
160251	TP	Development of the Physical 3-Dimensional Dot Module System Composed of Self-Folding Origami Modules
160427	TP	A Vision-based 6-DOF Displacement Measurement System using Multiple Planar Markers for Precise Assemble of PC members
160005	TP	Vertical Thrusting Unmanned Surface Vehicle for Stable and Close Inspection of Bridge Structure
160216	TP	A study on dynamics of cable driven parallel robot for various external forces
160260	TP	Cable Configuration Analysis to Increase the Rotational Range of Suspended 6-DOF Cable Driven Parallel Robots
160230	TP	Analysis of Cable Tension of High Speed Parallel Cable Robot: High Speed Position Tracking of
160266	TP	Sliding-Mode Control of Cable-Driven Parallel Robots with Elastic Cables
160047	TP	H_infinity filtering for T-S fuzzy systems with random multiple delays and packet dropouts subject to sensor saturations

160226	WP	Design of Two Degree of Freedom Controller Using Data Conversion Method
160334	WP	A study of H infinity controller for a motor-variable heavy load system
160203	WP	Dimensional Analysis of Scaled Vehicle for Vehicle Dynamics Control Tests
160151	WP	H ∞ fuzzy filter for nonlinear sampled-data system using fuzzy Lyapunov
160180	WP	Backstepping Control Using Self-aligning Torque for Lateral Control of Autonomous Vehicles
160422	WP	Stability Analysis of Nonlinear Ball on Beam System and Controller Using LQG Algorithm
160342	WP	A preliminary study on stabilization of a parallel inverted pendulum by model predictive control
160352	WP	Implementation of Sliding Mode Control for an Excavator System
160263	WP	A Nonlinear Parameter of Aerodynamic Torque And Its Application to a Torque Controller for a MW Wind Turbine
160208	WP	Modeling and Residual Vibration Control of a Quayside Container Crane
160044	WP	Optimal Brake Distribution for Electronic Stability Control Using Weighted Least Square Allocation Method
160159	WP	A Soft Computing Approach for Brake Pedal Behavior Identification in Brake-By-Wire System
160089	WP	Direct Tire Force Control using Pseudo Inverse Model of Vehicle Dynamics
160409	WP	Performance Evaluation of Analytical Hybrid Redundancy System for Advanced Driver Assistance Systems
160379	WP	Omni-directional Mobile Robot with Six-axes Force and Torque Sensor
160399	WP	Analysis of the mechanical behavior of the rubber spring with air pressure
160067	WP	Observer Based Nonlinear Control using Barrier Lyapunov Function for Position Tracking of Sawyer Motor under Yaw Constraint
160376	WP	Study on Cartesian Robot for Deep-hole Drilling with M20 Tapping
160354	WP	Development of the Air Cushion Transporter for Heavy Load Transportation
160268	WP	Pose Estimation and Picking Operation of Candidate Objects for Randomized Bin Picking
160423	WP	Decoupled Disturbance Compensation Under Control Saturation with Discrete-Time Variable Structure Control Method in Industrial Servo Systems
160087	WP	Study on Laser Welding Process Monitoring Method
160396	WP	The Thermal Effect of DAM Structure in Wafer Level Packaging Process
160078	WP	Engine stoppage mechanism of small boats during stormy weather
160274	WP	Temporary Primary Frequency Control Support by Deloaded Wind Power Plant Using Input-Output Linearization
160103	WP	Wireless Sensor Networks with randomized parameters
160287	WP	Method of Algorithm Building for Modular Reducing by Irreducible Polynomial
160250	WP	A Design of Cyber Security Test-bed for DPPS and PMAS in Korean Operating Nuclear Power Plant
160109	WP	Advanced method of factorization of multi-bit numbers based on Fermat's theorem in the system of residual classes
160286	WP	Control of Fuzzy Technological Objects Based on Mathematical Models
160369	WP	Neuro-Fuzzy Control for Balancing A Two-wheel Mobile Robot
160099	WP	Continuous gesture recognition by using gesture spotting
160161	WP	An Efficient Plane Extraction Method using Smoothed Surface Normals
160323	WP	Traffic Sign Recognition using Color Segmentation and Hierarchically Combined Classifiers
160416	WP	A Study on object tracking for mobile robot using image and distance information
160299	WP	3D point cloud map reconstruction of cultural assets and terrain
160220	WP	Loop Closure Detection with 2D Laser Range Finder for Graph SLAM in Indoor Environments
160164	WP	Unsupervised Feature Learning for Sequence-based Loop Closure Detection in Changing
160221	WP	High-resolution Full Normal Distributions Transform for 3D Point Cloud
160082	WP	A BRIEF-Gist Based Efficient Place Recognition for Indoor Home Service Robots
160400	WP	Development of an Automatic Chest Compression Equipment for Cardiac Arrest Patient
160167	WP	Design of a MR-fluid Brake with Multi-layered Disks for a Compact Actuating Device
160202	WP	Fabrication and Characterization of Magnetically Actuated Biocompatible Microrobot using UV Laser Micromachining for Biomedical Applications
160224	WP	Magnetically Actuated Medical Microrobots for Intravascular Treatment
160083	WP	Allometric Scaling of Insects and Animals for Biomimetic Robot Design Considerations
160378	WP	Development of Self-Paced Treadmill for Lower Limb Rehabilitation

160070	WP	A New Compliant Actuation: Electromagnetic Spring Uses in Parallel Elastic Actuator
160345	WP	Collaboration with Artist for Art Performance with Robot
160375	WP	Active Mount for Overcoming Halls Caused By Occlusion on 3D Meshes
160090	WP	Approach to Human-Robot Cooperation for an Active Upper Extremity Exercise Robot
160217	WP	Design of User motion intention algorithm for improving accuracy for Active upper limb exercise Robot
160347	WP	Visualization of Surrounding Environment of Robot for Tele-operation
160108	WP	Design and Implementation of Math-Solving Robot: Rank Analysis for Solving Magic Square Puzzle
160092	WP	Vehicle Routing Problem with Pickup and Delivery of Multiple Robots for Hospital Logistics
160212	WP	Design of a 6-DOF Stair-Climbing Mechanism
160122	WP	Wind Turbine Main Bearing Fault Detection via Shaft Speed Signal Analysis under Constant Load
160041	WP	Versatile Temperature Control System for Strain Gage Curing
160397	WP	Estimating Method for Geometry of Human using IMU Sensor
160112	WP	Integral Nonlinearity of Third Order Single Bit Sigma-Delta Modulator
160408	WP	Analysis of Signal Change about Non-Communication Refrigeration System
160248	WP	Improvement of Driver Health Care System based on a Contact-type Bio Sensor Using an IMU
160225	WP	Absolute positioning control of indoor flying robot using ultrasonic waves and verification system
160183	WP	Efficient Path Planning of Autonomous Carrier Robot for Collecting Unmanned Aerial Vehicles
160075	WP	Hybrid Drone Control Preliminary Research
160200	WP	A Cooperative Vision Based Localization via Cooperation of Ground and Aerial Robots
160240	WP	Model Predictive Control-based Trajectory Planning for Quadrotors with State and Input Constraints
160356	WP	Spherically-connected 3-quadrotor (S3Q) platform for aerial manipulation: experimental validation
160346	WP	Title: Omni-Directional Aerial Robot (ODAR): Implementation and Experiment
160328	WP	Camera-GPS-IMU Sensor Fusion for Autonomous Flying
160148	WP	Lane-Changing Feature Extraction Using Multisensor Integration
160130	WP	Removing past data of dynamic objects using static Velodyne LiDAR sensor
160326	WP	Static Fusion Map Based Data Fusion for Vehicle-to-Vehicle Communications Toward Autonomous Driving
160010	WP	MPC based Steering Control for Backward Driving Vehicle using Stereo Vision
160072	WP	Automatic Parking System using Background Subtraction with CCTV Environment
160178	WP	Road Boundary Estimation by using Laser Scanner
160011	WP	Control and Implementation of Underwater Vehicle Manipulator System