Presentation Title

7th				8th			9th		
9:00						Wideband Backforward-Drivability Motor Drive Based on Fast Current Control of Geared SPMSM On-line Estimation of Current Harmonics for Status Monitoring and Diagnosis of High-Speed	Hierarchical Gait Generation for Modular Robots Using Deep Reinforcement Learning Route optimization for autonomous bulldozer by distributed deep reinforcement	A Guide to Design Disturbance Observer-based Robust Motion Controllers in Discrete-time Domain Disturbance Rejection Based on Equivalent-Input-Disturbance	Passivity Based Hierarchically Decentralized Range Extension Control of In-wheel-motor Vehicles A Fuzzy Logic-Based Adaptive Dynamic Window Approach for
Opening Plenary1				Observer-based Angle of Attack	Performance Augmentation Adaptive Robust Motion Control of Series Elastic Actuator with Unmatched Uncertainties Disturbance Rejection	Permanent Magnet Synchronous A Study of Multisampling Deadbeat Control for Low Carrier Frequency PMSM Drive System Used in EVs and HEVs Torque Ripple Reduction for	learning Development of a Referense Signal Self-Organizing Control System Based on Deep Reinforcement Learning Evaluation of Power-Assisted	Approach Using High-Order Filter Adaptive Cutting Force Observer for Machine Tool Considering Stage Parameter Variation Active Disturbance Rejection	Mining Truck Path Planning A Deep Learning-based Approact to Line Crossing Prediction for Lane Change Maneuver of Adiacent Target Vehicles Time Series Prediction of Driving
				Estimation for Tilt-Wing eVTOL Aircraft	Performance of Adaptive Robust Control	PMSM based on PWM Pulse Merging Method for High Speed Range	Cart Based on Inherently Safe Control	Controller Design for Oxygen Excess Ratio of Proton Exchange Membrane Fuel Cell	Motion Scenarios Using Fuzzy Neural Networks
	Plenary2			Development of a low-cost avionics platform for small-scale model airplanes	Precision Motion Control of Constrained SISO Nonlinear System via Direct Optimized Compensation	A Study on Performance and Stability of Current Control Systems by Using Multi-Level Inverters	Validation of virtual hug effect under presentation of body contact pressure and HyperMirror image of a hug	Hybrid Reference Governor– Based Adaptive Robust Control of a Linear Motor Driven System	In-Vehicle Traffic Light based or The 4th Generation Mobile Communication Technology
				Estimation and Compensation of Airframe's Disturbance Force using Rotor Angular Velocity for Propeller-driven Systems	Model Prediction based Online Feedforward Compensation Control of Maglev Planar Motor with Comparative Investigation		A Design of Back-Drivable Tendon-Driven Mechanism on Robotic Finger		In-Vehicle Traffic Light based on Local Area Network
2:00									
3:00 GBDT Modeling of Deep Reinforcement Learning Using Distillation	g Agents Limit Cycle Walking on Floating Island	Modeling and Control Performance Evaluation for Testbed of Asteroid Flyby Observation System			Vibration Suppression and Tracking Control of a Flexure– Jointed Motion Stage Mechanism Usins LTV-FIR Command Filtering	High-Bandwidth Suspension Resonance Analysis of In-Wheel Motor Vehicle Using Multibody Dynamics		An improved ant colony optimization for path planning with multiple UAVs	Admittance Control-based Bilateral Control System for Haptic Data Reduction
Remarks on Octonion-Neural Networks with A to Robot Manipulator C	Application Predictability for Auto-vehicles Behaviors and Avoid Risk Accumulation during Driving	Vision-Based Rapid Target Tracking Method for Trajectories Estimation and Actuator Parameter Uncertainties for			Horizontal Counter Control Method for Suppressing Vibration of Machine Base	Disturbance Observer Based Glocal Control of Mechatronics Systems: A Passivity Approach		Cascade Terminal Sliding Mode Control for PMSM with Nonlinear Disturbance Observer	A New Autoregressive Neural Network Model with Command Compensation for Imitation Learning Based on Bilateral
	Detection of Reduced Magnetic Attraction Force Using a Disturbance Observer for Crawler Robots	High-precision Visual Servoing in Asteroid Flyby with Multirate Feedforward Control and Traiectory Estimation			Basic Study on Analysis and Suppression of Inverse Response Caused by Feedforward Friction Compensation of Ball-screw-	Feedforward Control Design Methodology for a Crane System with Restrictions on Drive System		Fractional-Order Based Resonant Controller for Torque Ripple Suppression of Permanent Magnet Synchronous Motors	
4:30 Underwater Suction Gri Object Manipulation wit Underwater Robot	ipper for Study on how to remove the rope traction device on the overhead distribution lines	Localization of Planetary Rovers from Slip Ratio Estimation with Simple Model		Skeleton-based visualization of poor body movements in a child's gross-motor assessment using convolutional auto-encoder	Application of Limited Pole Placement Method to State Feedback System	Autonomous vehicle navigation based in a hybrid methodology: model based and machine learning based		Excitation System with Active Magnetic Bearing Control Performance Improvement for Rotordynamic Force	Acceleration Measurement Improves the Bandwidth of Ford Estimation in Disturbance Observer
Prototype of 32-Joint I Using Shape Memory G Tendon-Driven Mechan		Development of a Slotless Permanent Magnet Motor with Two-Layer Toroidal Winding for Minimization of Torque Ripple		Motion Control Method Based on Two-link Manipulator Model with Bi-articular Muscle Considering Planetary Gear	Development of Optimal Design Support System of Actuator Position and Control System Considering Resonant Vibration	Pressure-flow dynamics with semi-stable limit cycles in hydraulic cylinder circuits Contraction Region Estimate for		Multirate Feedforward Control based on Modal Form with Mode Selection Applied to Multi-Modal High-Precision Positioning Stage Double-Disturbance	Multi Functional Drill Incorporat Linear Motor for Haptic Surgica Instrument and Simulator
Modular Drivetrains for Performance and Reliab				Deep Learning Based Singular Spectrum Analysis for Realization of Wideband Force Sensing	Assessment of Capacitor-based Charge Estimators for Piezoelectric Actuators Feedforward Control for Track-	State-Dependent Riccati- Equation-Based Controllers and its Application to a Two-Wheeled	Load Balancing Method Using	Compensation Design for Full- Closed Cascade Control of Flexible Robots	Force Disturbance Observer-
6:00 Plenary 3				Waste object classification with AI on the edge accelerators Experimental validation of	Seeking Control in Hard Disk Drive with Sampled-Data Polynomial Based on First-Order	A Model-less Approach for Estimating Vehicles Sideslip Angle by a Neural Network Concept	Server Temperature Prediction Considering Multiple Internal Heat Sources in Data Centers	Development of Reluctance Actuator for High-Precision Positioning and Scanning Motion Suppressing spatially distributed	based Force Control for Compliant Interaction with Dynamic Environment Load Torque Control of an
				interface aiding human depth prediction on images in terms of usability	A study on frequency-shaped PWM-type final-state control with quantization	Picometer-Scale Positioning of a Linear Drive System via Feedforward-Feedback Control	Frequency-domain experimental setup for mechatronic and suspension system components	disturbances by exploiting additional sensors and actuators in inferential motion control	Electromagnetic Motor with a Reduction Gear, a Spring, and Motor/Load-Side Encoders
7:00 Periodic/Aperiodic Hyb Position/Impedance Co Periodic/Aperiodic Sep Filter	ontrol Using	Effect of insulating liquid on thrust force of a synchronous electrostatic film actuator		Internal Sensor Based Kinematic Parameters Estimation using Acceleration/Deceleration Motion		A mechatronic apparatus for shear stress application on endothelial cells: design, development and experimental	Smart Adaptronic Thermal Management System Designs for The Li-ion Battery Packs	Multirate State Tracking for Improving Intersample Behavior in Iterative Learning Control	Improvement of McKibben Type Artificial Rubber Muscle Model Based on End Shape Deformation
	Force restrained control to extend flexibility of trajectory planning Achieving Resonance with Design of Acceleration Control for Piezoelectric Transducers on 2-4 Center of Mass on Sliding Robot Phase Resonant Electrostatic Induction Motors			Development of Haptic Feedback Control Stick for Remote Control between Different Structures	Hybrid identification with time- series data and frequency response data for accurate estimation of linear	The Robust Exact Differentiator Toolbox revisited: Filtering and Discretization Features		Closing	
Challenges of Linearization-based Control of Industrial Robots with Cycloidal Drives Stable Gait Generation on a Low Diagnosis of Sensor Faults in PMSM and Drive System Based on Structural Analysis				Assessment of Human Walking Stability Using the Gait Sensitivity Norm with Wearable Sensors	Control-Relevant Neural Networks for Intelligent Motion Feedforward	Analysis of the Sensitivity of Mechatronic Systems using the Example of a Light Guide	Technical Tour		
				On the Accuracy of IMUs for Human Motion Tracking: a Comparative Evaluation	A Closed-Loop Perspective on Fault Detection for Precision Motion Control: With Application to an Overactuated System	MPC-based Path Following Design for Automated Vehicles with Rear Wheel Steering			