

The 7th Japan-Korea Joint Symposium on Dynamics & Control - Program

8/30, Wednesday	Room A (ES021)				Room B (ES022)			
Time	Topics	No.	Title	Presenter (affiliation)	Topics	No.	Title	Presenter (affiliation)
8:40-9:00	Dynamics 1 (Chair: Hara, Susumu)	J25	Fundamental Research to Realize Astronautical Lightweight Robot Arm utilizing Cross-Honeycomb Structure	Shikama, Kento (Nihon University)	Control 1 (Chair: Honda, Shinya)	J9	Sensorless Angle Estimation Based on Sliding Mode Observer for Disposable Centrifugal Blood Pump using Doubly Salient Bearingless Slice Motor	He, Zeqiang (Tokyo Institute of Technology)
9:00-9:20		J1	Development of a Fruit Picking Hand with a Flexible Support Using a Coil Spring	Hiromi Akatsuka (Kochi University of Technology)		K7	Dynamic Model of a Rubber Type Track for Investigating the Dynamic Characteristics of the Robot with Rubber	JiEun, Kang (Pukyong Nat'l Univ.)
9:20-9:40		J2	Development of HORIZONTAL PARALLEL Mechanism Harvesting Robot	Ueno, Yuki (Kochi University of Technology)		J13	Position Control for Flexible Steel Plate by Facing Electromagnets: A Proposal of Two-degree-of-freedom Control System	Onitsuka, Seita (Fukuoka Institute of Technology)
9:40-10:00		K1	Integration Schemes for Multibody Dynamic Problem	Yoo, Wan Suk (Pusan National University)		K8	Control Framework for the LASDRA System with Joint Locking	Lee, Jeongseob (Seoul National University)
10:00-10:15			Break				Break	
10:15-10:35	Damping (Chair: Sohn, Jeong Hyun)	J3	Research on Vibration Damping Performance and Applications of Origami Type Hydraulic Damper	Jingchao, Guan (Saitama Institute of Technology)	Control 2 (Chair: Yoo, Wan Suk)	J14	Control System design of Quad Tilt Wing Aircraft	Morimoto, Takuma (Kochi University of Technology)
10:35-10:55		K2	Frequency Domain Disturbance Observer for the Residual Vibration Suppression of a RFC Linear Motor Motion Stage	Jeon, Hee-Won (Soongsil University)		K9	A Novel Axial-Bias Flux Inner Rotor Permanent Magnets (IRPM) Bearingless Motor	Vo, Ngoc Vu (Soongsil University)
10:55-11:15		J4	Design optimization of meta-structures with embedded dynamic vibration absorbers	Hayamizu, Kiichi (Meiji University)		J15	Magnetic force induced vibration analysis of switched reluctance motor	Kaji, Yusuke (Meiji University)
11:15-11:35		J5	Vibration tests during switching series inertia mass by deep Q-network	Zhang, Ruyi (Meiji University)		J16	Take-Over Performance by Emotional Status in Level 3 Autonomous Driving	Lee, Joohyeong (Japan Automobile Research Institute)
11:35-12:25			Lunch break				Lunch break	
12:25-12:45	Driving (Chair: Nakamura, Hiroki)	J6	Active Seat Suspension Reducing Multi-degree-of-freedom Vibration During Driving on a Poor Road: Analytical Consideration on the Control Method for Vertical and Pitch Vibration	Okamura, Eiichi (Fukuoka Institute of Technology)	Levitation (Chair: Shinshi, Tadahiko)	J17	Electromagnetic levitation for flexible steel plate using magnetic field from horizontal direction: Fundamental Study on Characteristics of Attractive Force by Tilted Electromagnets	Baba, Shotaro (Fukuoka Institute of Technology)
12:45-13:05		K3	Data-Integrated Model-Driven Simulation: An Effective Method for Complex Systems using Flexible Multi-Body Dynamics	Choi, Juhwan (FunctionBay, Inc.)		J18	Magnetic Levitation System Supporting One Edge of Flexible Steel Plate: Experimental Consideration on Stability of Levitation	Itoyama, Rintaro (Fukuoka Institute of Technology)
13:05-13:25		J7	Study on Starting Control for Motorcycle Using Front-Wheel Drive	Muto, Kyohei (Nagoya University)		J19	Opposed Horizontal Edge Support Type Electromagnetic Levitation System for Flexible Steel Plate: Experimental Consideration on Stable Levitation	Kawashima, Kazuma (Fukuoka Institute of Technology)
13:25-13:45		K4	A dynamic Model of Autonomous Robot for Development of Real-time Manned Remote Driving Simulator	Park, Su-Hyun (Pukyong University)		J20	Levitation control of a bearingless slice motor using eddy current displacement sensors installed below the rotor	Ren, YANG (Tokyo Institute of Technology)
13:45-14:05			Break				Break	
14:05-14:25	Dynamics 3 (Co-chairs: Lee, Dongjun and Akira Saito)	J11	Experimental Evaluation of an Intelligent Foot Orthosis for Fall Prevention Using a Compact Magnetorheological Fluid Brake	Itami, Sho (Yokohama National University)	Dynamics 2 (Co-chairs: Goo, Nam Seo and Matsuoka, Taichi)	J21	Vibration optimization of laminated composites with curvilinear reinforcing fibers for shell structures	Saiwaki Isamu (Hokkaido University)
14:25-14:45		J8	Motion Analysis Method Using Mathematical Problems of Human-Machine Systems with Contact Phenomenon	Kitazawa, Yuki (Aoyama Gakuin University Graduate School)		J22	Evaluation of optimal design of laminated composite structures using Bayesian optimization	Genki Kitazawa (Hokkaido University)
14:45-15:05						K10	Low velocity impact experiment on sandwich composite structures	Goo, Nam Seo (Konkuk University)
15:05-15:25		J10	Development of Food Texture Testing Equipment Focusing on Finite Stiffness of Masticatory Muscles	Kadowaki, Ren (National Institute of Technology (KOSEN), Nagano College)		J23	Development of Active Vibrometer using Micro-Control Device	Miyazaki, Kazuma (Nihon University)
15:25-15:40			Break				Break	
15:40-16:00		K5	Large-Dimensional Multibody Dynamics Simulation Using Contact Nodalization and Diagonalization	Lee, Jeongmin (Seoul National University)	J24	Development of Bi-stable Vibration Energy Harvesting System without Elastic Force	Wei, Zhao (Space CS Co., Ltd.)	
16:00-16:20					K11	Analysis of mechanical cumulative damage in dry storage system	Hyungyu, Roh (Yonsei University)	
18:15~			Banquet				Banquet	