OS6: New Dimensions of Magnetic Suspension and Balance System

October 29, 2021
ROOM1

OS6-1  Further Development of an Electromagnetic Position Sensor with Digital Processing (Invited)
8:00-8:20  Colin P. Britcher, Michelle E. Weinmann (Old Dominion University, USA)

OS6-2  Position Sensing Method for Rotating Sphere in 1-m Magnetic Suspension and Balance System
8:20-8:40  Hiroyuki Okuizumi, Hideo Sawada, Yasufumi Konishi, Shigeru Obayashi, Keisuke Asai (Tohoku University, Japan)

OS6-3  Blunt Body Pitch Damping Measurements from Multiple Subsonic Free-to-Pitch Magnetic Suspension Trials
8:40-9:00  Mark Schoenenberger, David Cox (NASA Langley Research Center, USA), Colin Britcher (Old Dominion University, USA)

OS6-4  Effect of Angle of Attack on Freestream-Aligned Circular Cylinder with Fineness Ratio of 1.0 - Update of Experimental Research in 0.3-m MSBS
9:20-9:38  Sho Yokota, Taku Nonomura, Keisuke Asai (Tohoku University, Japan)

OS6-5  Magnetic Levitation of Reentry Capsule Towards Wind Tunnel Testing
9:38-9:56  Chiharu Inomata, Sho Yokota, Taku Nonomura, Keisuke Asai (Tohoku University, Japan)

OS6-6  CFD-based Feasibility Study of Pressure Reconstruction from PIV in MSBS
9:56-10:14  Tsubasa Nambu, Syunsuke Igarashi, Yuta Ozawa, Taku Nonomura, Keisuke Asai (Tohoku University, Japan)

OS6-7  Measurements of Aerodynamic Characteristics of Square-Cylinder Models with Low Fineness Ratio Using 1.0-m Magnetic Suspension and Balance System
10:14-10:32  Rintaro Makino, Yuki Wajima, Masatoshi Horiguchi, Hiroyuki Okuizumi, Keisuke Asai, Shigeru Obayashi (Tohoku University, Japan)

OS6-8  Aerodynamic Characteristics of the Slanted Cylinder Afterbody Investigated in 0.3-m Magnetic Suspension and Balance System
10:32-10:50  Kodai Tashiro, Sho Yokota (Tohoku University, Japan), Fernando Zigunov (FAMU-FSU College of Engineering, USA), Yuta Ozawa, Taku Nonomura, Keisuke Asai (Tohoku University, Japan)