

GS1: General Session

October 28, 2020

ROOM1 (Zoom Webinar)

- GS1-1 **Genetic Programming Control of a Hydrodynamically Self-excited Jet**
9:20-9:40 Zhijian Yang, Bo Yin, Yu Guan, Stephane Redonnet (The Hong Kong University of Science and Technology, Hong Kong, China), Yuanhang Zhu (Brown University, USA), Vikrant Gupta (Southern University of Science and Technology, China), Larry K. B. Li (The Hong Kong University of Science and Technology, Hong Kong, China)
- GS1-2 **Control of a Flow at 30 m/s Using Supersonic Micro Ejectors**
9:40-10:00 Yuto Nakadori, Akira Urita, Taro Handa (Toyota Technological Institute, Japan)
- GS1-3 **Experimental Study on the Effect of High-Frequency Flapping Jets on Supersonic Boundary Layer**
10:00-10:20 Rui Aoki, Ikuhiro Fujimura, Taro Handa (Toyota Technological Institute, Japan), Chungil Lee, Yuta Ozawa, Yuji Saito, Taku Nonomura, Keisuke Asai (Tohoku University, Japan)
- GS1-4 **Comparison of Theoretical Models and Rainbow Schlieren Deflectometry for Slightly Underexpanded Microjets**
10:20-10:40 Muhammad Minarul Islam (The University of Kitakyushu, Japan / Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Bangladesh), Ryota Fukunaga, Shinichiro Nakao, Yoshiaki Miyazato (The University of Kitakyushu, Japan)
- GS1-5 **Numerical Investigation of Supercritical Hydrocarbon Flows with Pyrolysis**
11:10-11:30 Shuto Yatsuyanagi, Takashi Furusawa, Satoru Yamamoto (Tohoku University, Japan), Sadatake Tomioka, Takuo Onodera (Japan Aerospace Exploration Agency, Japan)
- GS1-6 **Estimation of Heat Transfer Characteristics in Microduct Compressible Flow Based on Molecular Sensor and CFD**
11:30-11:50 Ryo Uematsu, Bing Han (Toyota Technological Institute, Japan), Yu Matsuda (Waseda University, Japan), Yasuhiro Egami (Aichi Institute of Technology, Japan), Taro Handa (Toyota Technological Institute, Japan)
- GS1-7 **Design Study of Cryogenic Loop Heat Pipe for Space Application**
11:50-12:10 Xinyu Chang, Takuya Adachi (Tohoku University, Japan), Kimihide Odagiri, Hiroyuki Ogawa (Institute of Space and Astronautical Science, Japan), Hiroki Nagai (Tohoku University, Japan)
- GS1-8 **Experiment on Steady-Flow-Type Particle Receiver for High-Temperature Solar Heat Absorption**
13:30-13:50 Yuta Sakai, Yudai Suzuki, Koji Matsubara, Selvan Bellan, Tatsuya Kodama (Niigata University, Japan)
- GS1-9 **CANCELED**
- GS1-10 **CANCELED**

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- GS1-11 **Effect of Cutback Stator Blades on Flows through Three-Stage Blade Rows in Intermediate Pressure Steam Turbine**
9:20-9:40 Hironori Miyazawa, Shohei Funahazama, Takashi Furusawa, Satoru Yamamoto (Tohoku University, Japan), Shuichi Umezawa (Tokyo Electric Power Company Holdings, Inc., Japan), Koichi Yonezawa (Central Research Institute of Electric Power Industry, Japan) Shuichi Ohmori, Takashi Suzuki (Tokyo Electric Power Company Holdings, Inc., Japan)
- GS1-12 **Extraction of Design Knowledge from a Robust Design Optimization of Supersonic Biplane Airfoil**
9:40-10:00 Soichiro Tabata, Wataru Yamazaki (Nagaoka University of Technology, Japan)
- GS1-13 **Flexible Wing Fluid-Structure Interaction Model Coupling Unsteady Vortex Lattice Method and Absolute Nodal Coordinate Formulation**
10:00-10:20 Keisuke Otsuka, Shuonan Dong (Tohoku University, Japan), Yinan Wang (University of Warwick, UK), Koji Fujita, Hiroki Nagai, Kanjuro Makihara (Tohoku University, Japan)
- GS1-14 **Flow Dynamics and Flight of the Smallest Featherwing Beetles**
10:20-10:40 Dmitry Kolomenskiy (Tokyo Institute of Technology, Japan), Sergey Farisenkov (Lomonosov Moscow State University, Russia), Thomas Engels (University of Rostock, Germany), Nadezhda Lapina, Pyotr Petrov (Lomonosov Moscow State University, Russia), Fritz-Olaf Lehmann (University of Rostock, Germany), Ryo Onishi (Tokyo Institute of Technology, Japan), Hao Liu (Chiba University, Japan), Alexey Polilov (Lomonosov Moscow State University, Russia / Joint Russian-Vietnamese Tropical Research and Technological Center, Vietnam)
- GS1-15 **Preliminary Evaluation of Permeability Effect on Membrane Wing at Low Reynolds Number**
11:10-11:30 Koji Fujita, Koichi Takahashi, Hiroki Nagai (Tohoku University, Japan)
- GS1-16 **Study on the Frequency Selection Mechanism of Tonal Protuberance Noise in Laminar Boundary Layers**
11:30-11:50 Takaaki Abo, Ayumu Inasawa, Masahito Asai (Tokyo Metropolitan University, Japan)
- GS1-17 **Self-excited Chaotic Thermoacoustic Oscillations Via Type-II Intermittency**
11:50-12:10 Yu Guan (The Hong Kong University of Science and Technology, Hong Kong, China), Vikrant Gupta (Southern University of Science and Technology, China), Larry K. B. Li (The Hong Kong University of Science and Technology, Hong Kong, China)