



2017 July 26th

Opening Ceremony Host: SJTU Students		
9:00- 9:10	ICASSE 2017 Introduction	Ping Lu
9:10- 9:20	Welcome Speech	SJTU VP
9:20-9:50	Keynote Speech I : Computational Guidance and Control	Ping Lu
9:50-10:20	Photo & Tea break	
10:20-10:50	Keynote Speech II: Information Fusion and Sensor Network Surveillance	Henry Leung
Session 1: Aerospace System Session Chair : Ping Lu		
10:50-11:05	Application of Mathematical Modeling for Certification of Superjet-100 Airplane	Dmitry Yu. Strelets
11:05-11:20	Parameter Identification for Hyperelastic Model of Pneumatic Actuator Based on Flexible-Matrix-Composite	Zhefeng Yu
11:20-11:30	An Innovative and Efficient Shock Absorber and Its Application to the Aircraft Seat	Yi Fu
11:30-11:40	Experimental Investigation of Output Voltage of Vibration Based Piezoelectric Ceramics under Various Loading and Thermal Conditions	Saqlain Abbas
11:40-11:50	Compensation-Modification Method for Surface Effects in Non-Local State-Based Peridynamic	Zhuoyue Zhang
11:50-13:30	Lunch	
13:30-14:00	Keynote Speech III: Mission Design of Deorbiting Spacecrafts using Electrodynamic Tethers (DESCENT)	George Z. H. Zhu
Session 2: Information and Control Session Chair : Shufan Wu		
14:00-14:15	Transition Control of the Blasius Boundary Layer Using Passivity	Christopher Damaren
14:15-14:30	Wildfire Autonomous Hotspot Detection Using a Fixed Wing UAV	Hugh Liu
14:30-14:45	Dynamical Reconstruction of Remotely Measured	Christophe Baehr

	Random Media. Application to the Atmospheric Turbulence	
14:45-15:05	Tea break	
15:05-15:20	Linear Parameter-Varying Proportional-Integral Control Design for the Longitudinal Motion of an F-16 Aircraft	Bei Lu
15:20-15:35	New Challenges for Developing Civil Aircraft Environmental Surveillance System	Gang Xiao
15:35-15:50	Motion Planning of Variable Geometry Truss Space Manipulator	Yongsheng Yang
15:50-16:00	LQR and SMC Based Stick-force Tracking Control of Active Sidesticks in Human-in-the-loop System	Xianglong Liangqing
16:00-16:10	Lattice Flocking of multi-Quadrotor System: an Algorithm Based on Artificial Potential Field	Zi'an Ning
16:10-16:20	Survey of Active Inceptor Control System Technology	Zilin Huang
16:20-18:00	Rest	
18:00-20:00	Banquet (Welcome Dinner)	

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9:00-9:30	Keynote Speech IV: Challenges in Designing Gas-Turbine Cooling Systems	Tom I-Ping Shih
9:30-10:00	Keynote Speech V: Development of Modular and Reconfigurable Robot with Multiple Working Modes	Guangjun Liu
10:00-10:20	Tea break	
Session 3: Fluid Dynamics and Propulsion Session Chair : Hugh Liu		
10:20-10:35	Compression Computational Grid for Acoustic Source Localization	Wei Ma
10:35-10:50	Coupled Hydrodynamic and Aerodynamic Performance Analysis of Seaplane Take-off Process in Calm Water	Lang Zhang
10:50-11:05	An Experimental Investigation on the Kinetic Energy Transport in the Flow around a Wind Turbine Model	Wei Tian
11:05-11:20	Aero-Optical Effects of Front Step for Supersonic Flight	Boyang Xing
11:20-11:30	Shock Mach Number Effect on the Mixing and Combustion Performance in Reactive Shock Bubble	Bin Yu

	Interaction	
11:30-11:40	Quasi One Dimensional Modelling and Optimization of Hydrogen Fuelled Scramjet	Di Lu
11:40-11:50	On the Total Pressure Loss Induced by the Interaction between the Oblique Shock Wave and a Sonic Hydrogen Jet in Supersonic Crossflow for Mixing Enhancement	Yaru Tian
11:50-12:00	Reynolds Number Influence on the Backpressure Induced Shock-boundary Layer Interaction in an Asymmetric Supersonic Expansion Flow	Yuan Ji
12:00-13:30	Lunch	
13:30-14:00	Keynote Speech VI: Enabling Internet Access for All	Greg Wyler
14:00-14:30	Keynote Speech VII: Optimal Control of Hybrid Aerospace Systems	Christopher Damaren
14:30-14:50	Tea Break	
Session 4: Space Technology Session Chair : George Z. H. Zhu		
14:50-15:05	Small Satellite Formations for Applications in Communication and Earth Observation	Klaus Schilling
15:05-15:20	The need for In Flight Testing and in Orbit Demonstration for future Space Vehicle Design	Jean Muaylert
15:20-15:35	Measurement of Reflected GNSS Signals using HiSGR Receiver: Preliminary Results in Experiments	Deren Gong
15:35-15:50	A Survey on Micro/Nano Satellite Technologies and Applications in China	Shufan Wu
15:50-16:05	A Unified Formulation of Linear Complementary Problem for Space Robot Dynamics with Stick-Slip Constraint	Tianjian Hu
16:05-16:15	An Overview of the Configuration and Manipulation of Soft Robotics for On-Orbit Servicing	Lingfeng Qiao
16:15-16:25	Electromagnetic Isolation and Electrical Protection in Spacecraft General Assembly	Botao Xu
16:25-16:40	Student Best Paper Awarding Ceremony	Presenters of awards: Ping Lu, Zhongliang Jing
16:40-16:50	Closing Remark	Xingqun Zhan