

Time				Paper ID		23 November 2021		
8:00-9:00			Registration					
9:00-9:50			Opening				Aula	
9:00-9:20	Tomasz Goetzendorf-Grabowski							Welcome by PSAA president
	Franco Bernelli							Welcome by CEAS president
	Zdobyslaw Goraj							Welcome and Introduction by former CEAS and PSAA president
9:20-9:40	Pawel Stężycki							Welcome speech by Director of the Łukasiewicz Research Network - Institute of Aviation
9:40-9:50	Janusz Frączek							Welcome speech by Dean of The Faculty of Power and Aeronautical Engineering (MEIL), Warsaw University of Technology
10:00-10:25	Andreas Strohmayr	on-line	Plenary Lecture		Chair	Zdobyslaw Goraj		Challenges for aeronautical research in this decade
10:25-10:50								Coffee break
10:50-12:30	Session 1/1	Mixed	Aircraft Design - 1	Paper ID	Chair	Zdobyslaw Goraj	Aula	
10:50-11:10	Stanislaw Karpuk	on-line	paper submitted	076				Assessment of potential commercial success of business jets with natural laminar flow technology
11:10-11:30	Deni Raco	on-site	paper submitted	048				Model-based development and logical AI for secure and safe avionics systems: a verification framework for SYSML behavior specifications
11:30-11:50	Jonathan Cooper	on-site	paper submitted	186				Preliminary design of aircraft wings incorporating folding wingtips
11:50-12:10	Pawel Zakrzewski	on-site	paper submitted	064				Application of Agile Approach for Development of the Avionics Safety Critical Systems
12:10-12:30								
10:50-12:30	Session 1/2	Full on-site	Aerodynamics - 1		Chair	Łukasz Kiszowski	Room1	
10:50-11:10	Karthick Rajkumar	on-site	paper submitted	183				Time-efficient simulations of weapon bay in fighter aircraft
11:10-11:30	Witold Klimczyk	on-site	paper submitted	141				Prediction of airfoil tonal noise using URANS computations and its mitigation
11:30-11:50	Wit Stryczniewicz	on-site	only presentation	112				Development of small scale wind tunnel model for testing power efficient pulsed jets actuator concepts in H2020 Clean Sky 2 WINGPULSE project
11:50-12:10	Guillaume Coria	on-site	only presentation	113				Modeling and simulation of chemical reactions at the surface of an ablative wall interacting with a hypersonic flow : Application to atmospheric reentry
12:10-12:30								
10:50-12:30	Session 1/3	Full on-site	Materials and Structures - 1		Chair	Antoni Niepokólczycki	Room2	
10:50-11:10	Mirosław Rodzewicz	on-site	paper submitted	123				Derivation of conservative load spectrum for fatigue proof test of UAV structure
11:10-11:30	Gregor Neumann	on-site	only presentation	154				Methods for modelling of imperfections of additively manufactured metal components and prediction of the structural properties of imperfect components
11:30-11:50	Desgaches Damien	on-site	only presentation	122				Use of Friction Stir Welding on primary structures of aircrafts instead of riveted junction
11:50-12:10	Zsombor Sági	on-site	paper submitted	107				Structural Development and Manufacturing of the DemoP1 Demonstrator
12:10-12:30	Pawel Skalski	on-site	paper submitted	117				Morphing structures
10:50-12:30	Session 1/4	Full on-line	Skills for the aerospace sector 1		Chair	Franco Bernelli	Room4	
10:50-11:10	Paolo Tortora	on-line	paper submitted	178				Lessons Learned from Hands-On Nanosat Activities in PEGASUS Universities
11:10-11:30	Marek Kosuda	on-line	paper submitted	131				Evolution of the Aeronautics and Aerospace Studies at TUKE in the past 15 years
11:30-11:50	Juan Jose Morillas Guerrero	on-line	paper submitted	120				An analysis of the Spanish aerospace sector and its transformative enablers: the case of the start-up ecosystem in Madrid.
11:50-12:10	Jamel Metmati	on-line	paper submitted	069				SPACE COMMAND : MANAGE SPACE OPERATIONS IN THE NEW SPACE AGE
12:10-12:30	Tadeusz Uhl	on-line	paper submitted	128				UNIVERSEH - European Space University for Earth and Humanity
12:30-13:30								Lunch
13:30-13:45								Award Ceremony
13:45-14:25	Martin Wahlich	on-site	Plenary Lecture		Chair	Franco Bernelli		Active Flow- Loads- and Noise- Control on next Generation Wing - Overview and Results
14:30-15:50	Session 2/1	Full on-site	Flight Dynamics		Chair	Tomasz Goetzendorf-Grabowski	Aula	
14:30-14:50	Zdobyslaw Goraj	on-site	only presentation	168				Simulation of a passenger aircraft flight with the wing tip cut using aerodynamics with full separation
14:50-15:10	Agnieszka Kwiek	on-site	paper submitted	130				An investigation into directional characteristics of the rocket plane in a tailless configuration
15:10-15:30	Kai San Hon	on-site	paper submitted	152				Development of a flight simulator for conceptual aircraft design and sizing
15:30-15:50	Tomasz Malecki	on-site	paper submitted	164				Simultaneous Localization and Mapping (SLAM) Problem – description of selected algorithm
14:30-15:50	Session 2/2	Full on-line	Control and Flight Tests - 1		Chair	Jonathan Cooper	Room1	
14:30-14:50	Leonardo Nepomuceno	on-line	paper submitted	151				Filter-Error Method for Aerodynamic Parameter Estimation of a Generic Future Fighter
14:50-15:10	Jacek Pieniazek	on-line	paper submitted	134				Control in curvilinear approach to landing
15:10-15:30	Marcin Adamczuk	on-line	paper submitted	127				Application of biofeedback and adaptive automation for UAV operator performance enhancement
15:30-15:50	Adam Antczak	on-line	paper submitted	115				Efficient position of two long-range passenger aircraft in formation flight
14:30-15:50	Session 2/3	Full on-line	Space Mission Analysis and Design - 1		Chair	Franco Bernelli	Room2	
14:30-14:50	Lorenzo Giudici	on-line	paper submitted	101				Space debris cloud propagation through phase space domain binning
14:50-15:10	Bhavyashree Janardhana	on-line	paper submitted	162				Conceptual analysis for a technology demonstration mission of the Ion Beam Shepherd
15:10-15:30	Robert Rogólski	on-line	paper submitted	061				MiG-29 and Su-22 aircraft as air-launch platforms for space rockets
15:30-15:50	Sérgio Silva Soares	on-line	paper submitted	075				DATASAT - ADA Ground Station Network. Automatic Directional Antenna for Space Communications on LEO Spacecrafts
16:00-16:20	Fayette S. Collier	on-line	Plenary Lecture		Chair	Zdobyslaw Goraj		Toward Environmental Sustainability in Aviation
16:30-18:00	CEAS GA							



25 November 2021						
Time						
8:00-9:00			Registration			Aula
9:00-9:45	Arne Seitz	on-line		Chair	Zdobyslaw Goraj	Fuselage BLI Propulsion Integration - Insights from H2020 CENTRELINE
9:45-10:00						Coffee break
10:00-11:40	Session 6/1	Mixed	Satellite Dynamics and Control	Chair	Salvo Marcuccio	Aula
10:00-10:20	Gabrielle Esnault	on-site	paper submitted	102		Design and CFD analysis of the LOX/LCH4 dual regenerative cooling circuit of the DemoP1 Demonstrator
10:20-10:40	Szabolcs Grünvald	on-site	paper submitted	083		Attitude Control System of an Earth Observation Satellite
10:40-11:00	Jason Calvi	on-line	paper submitted	067		Machine Learning Techniques for Detection and Tracking of Space Objects in Optical Telescope Images
11:00-11:20	Mashairo Kanazaki	on-line	paper submitted	175		Stage Separation Dynamics Optimization to Avoid Collision During TSTO Separation by Aerodynamics and Flight Dynamics Simulation
11:20-11:40	Krystian Borodacz	on-site	only presentation	096		Optimal space debris deorbitation strategy
10:00-11:40	Session 6/2	Full on-line	Aircraft Design - 2	Chair	Tomasz Goetzendorf-Grabowski	Room1
10:00-10:20	Michael Rohdenburg	on-line	paper submitted	084		Holistic Low-Effort Model for Damage Tolerance Analysis in Preliminary Design
10:20-10:40	Bartłomiej Dziewoński	on-line	paper submitted	045		Preliminary design of a supersonic passenger aircraft
10:40-11:00	Michał Jędrak	on-line	paper submitted	161		Finite Element Analysis of the Suspended Satellite Rocket Weight Effect on the Strength and Deformability of the MiG-29 Aircraft Structure
11:00-11:20	Daniel Schmeling	on-line	paper submitted	140		Overhead cooling device reducing thermal stratification at displacement ventilation
11:20-11:40						
10:00-11:40	Session 6/3	Full on-line	Materials and Structures - 3	Chair	Mirosław Rodzewicz	Room2
10:00-10:20	Cheng Angelo Yan	on-line	paper submitted	066		Analysis of Lightweight Structures using Physics Informed Neural Networks
10:20-10:40	Mirco Zaccariotto	on-line	only presentation	165		Efficient modelling of fatigue crack propagation with a FEM-peridynamics coupled approach
10:40-11:00	Florian Franke	on-line	paper submitted	111		Investigation of impacts between unmanned aerial vehicle motors and various targets
11:00-11:20	Renaud Bertoni	on-line	paper submitted	132		Predictive approach of rotating equipment, gears and bearing faults
11:20-11:40	Marco Lo Cascio	on-line	paper submitted	082		A hybrid VEM/BEM numerical technique for simulating damage in composite materials
11:40-12:00						Coffee break
12:00-13:20	Session 7/1	Full on-site	Space Mission Analysis and Design - 2	Chair	Salvo Marcuccio	Aula
12:00-12:20	Franco Bernelli	on-site	paper submitted	042_2		Feasibility analysis of GNSS-based navigation for LUMIO mission
12:20-12:40	Franco Bernelli	on-site	paper submitted	042_3		Re-entry predictions of space debris for collision avoidance with air traffic
12:40-13:00	Xingchuan Liu	on-site	paper submitted	085		Model predictive control for rigid satellite formation with underactuated propulsive system based on relative orbital elements
13:00-13:20	Niels Bakx	on-site	paper submitted	199		Using Solar-sail Induced Dynamics to Increase the Warning Time for Solar Storms Heading Towards Earth
12:00-13:20	Session 7/2	Full on-line	Aerodynamics - 4	Chair	Łukasz Kiszowski	Room1
12:00-12:20	Kazuhsa Chiba	on-line	paper submitted	150		Acquisition of Swept Aerodynamic Data by Consecutive Change of Wing Model Configuration in Wind Tunnel Tests Using Remote and Feedback Control
12:20-12:40	Dominik Schäfer	on-line	paper submitted	089		Nonlinearities in off-diagonal GAF matrix elements in the scope of T-tail flutter
12:40-13:00	Stefano Bortolotti	on-line	paper submitted	142		A variable fidelity optimisation procedure for multi-airfoil design
13:00-13:20	Yeongmin Jo	on-line	only presentation	158		Development of A Mid-Fidelity Aerodynamic Analysis Code for eVTOL Aircrafts
12:00-13:20	Session 7/3	Full on-line	UAVs - 3	Chair	Mikołaj Jarkowski	Room2
12:00-12:20	Mariusz Jacewicz	on-line	paper submitted	126		Quadrotor motion analysis and control in wind field environment
12:20-12:40	Dominik Tokarz	on-line	paper submitted	155		VR environment for UAV pilots training with automated flight assessment system
12:40-13:00	Michał Skowron-Nadulski	on-line	paper submitted	092		Data fusion concept for a sense and avoid system on-board small UAV
13:00-13:20						
13:20-14:20						Lunch
14:30			Closing ceremony			