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Time				Paper ID		23 November 2021	-	
8:00-9:00			Registration					
9:00-9:50			Opening				Aula	
	Tomasz Goetzendorf-Grabowski							Welcome by PSAA president
9:00-9:20	Franco Bernelli							Welcome by CEAS president
	Zdobysław Goraj						-	Welcome and Introduction by former CEAS and PSAA president
9:20-9:40	Paweł 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
	Andreas Strohmayer	on-line	Plenary Lecture		Chair	Zdobysław Goraj		Challenges for aeronautical research in this decade
10:25-10:50								Coffee break
10:50-12:30		Mixed	Aircraft Design -1	Paper ID	Chair	Zdobysław Goraj	Aula	
10:50-11:10	Stanislav Karpuk	on-line	paper submited	076				Assessment of potential commercial success of business jets with natural laminar flow technology
11:10-11:30	Deni Raco	on-site	paper submited	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 submited	186				Preliminary design of aircraft wings incorporating folding wingtips
11:50-12:10	Pawel Zakrzewski	on-site	paper submited	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 Kiszkowiak	Room1	
10:50-11:10	Karthick Rajkumar	on-site	paper submited	183				Time-efficient simulations of weapon bay in fighter aircraft
11:10-11:30	Witold Klimczyk	on-site	paper submited	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
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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		Full on-site	Materials and Structures - 1		Chair	Antoni Niepokólczycki	Room2	
	Mirosław Rodzewicz	on-site	paper submited	123		, , , , , , , , , , , , , , , , , , , ,		Derivation of conservative load spectrum for fatigue proof test of UAV structure
								Methods for modelling of imperfections of additively manufactured metal components and prediction of the structural properties of imperfect
11:10-11:30	Gregor Neumann	on-site	only presentation	154				components
	Desgaches Damien	on-site	only presentation	122				Use of Friction Stir Welding on primary structures of aircrafts instead of riveted junction
	Zsombor Sápi	on-site	paper submited	107				Structural Development and Manufacturing of the DemoP1 Demonstrator
	Paweł Skalski	on-site	paper submitted	117				Morphing structures
10:50-12:30		Full on-line	Skills for the aerospace sector 1		Chair	Franco Bernelli	Room4	
	Paolo Tortora	on-line	paper submited	178				Lessons Learned from Hands-On Nanosat Activities in PEGASUS Universities
	Marek Kosuda	on-line	paper submited	131				Evolution of the Aeronautics and Aerospace Studies at TUKE in the past 15 years
	Juan Jose Morillas Guerrero	on-line	paper submited	120				An analysis of the Spanish aerospace sector and its transformative enablers: the case of the start-up ecosystem in Madrid.
	Jamel Metmati	on-line	paper submited	069				SPACE COMMAND : MANAGE SPACE OPERATIONS IN THE NEW SPACE AGE
	Tadeusz Uhl	on-line	paper submited	128				UNIVERSEH - European Space University for Earth and Humanity
12:30-13:30								Lunch
13:30-13:45								Award Ceremony
	Martin Wahlich	on-site	Plenary Lecture		Chair	Franco Bernelli		Active Flow- Loads- and Noise- Control on next Generation Wing - Overview and Results
	Session 2/1	Full on-site	Flight Dynamics			Tomasz Goetzendorf-Grabowski	Aula	
	Zdobyslaw Goraj	on-site	only presentation	168	,			Simulation of a passenger aircraft flight with the wing tip cut using aerodynamics with full separation
	Agnieszka Kwiek	on-site	paper submitted	130				An investigation into directional characteristics of the rocket plane in a tailless configuration
	Kai San Hon	on-site	paper submitted	152				Development of a flight simulator for conceptual aircraft design and sizing
	Tomasz Małecki	on-site	paper submitted	164				Simultaneous Localization and Mapping (SLAM) Problem – description of selected algorithm
14:30-15:50		Full on-line	Control and Flight Tests - 1	10.	Chair	Jonathan Cooper	Room1	and mapping to any model. acceptant of acceptant
	Leonardo Nepomuceno	on-line	paper submitted	151	5			Filter-Error Method for Aerodynamic Parameter Estimation of a Generic Future Fighter
	Jacek Pieniazek	on-line	paper submitted paper submitted	134				Therefore inventor in recognition and a control of a center of the register.  Control in curvilinear approach to landing
	Marcin Adamczuk	on-line	paper submitted	127				Application of biofeedback and adaptive automation for UAV operator performance enhancement
	Adam Antezak	on-line	paper submitted	115				Application of indeeduck and adaptive automation to OAV operation performance emininement.  Efficient position of two long-range passenger aircraft in formation flight
14:30-15:50		Full on-line	Space Mission Analysis and Design -1	113	Chair	Franco Bernelli	Room2	Control of the long range published in territoria right
	Lorenzo Giudici	on-line	paper submited	101	ciidii		NOOMIZ	Space debris cloud propagation through phase space domain binning
	Bhavyashree Janardhana	on-line	paper submitted	162				Conceptual analysis for a technology demonstration mission of the Ion Beam Shepherd
	Robert Rogólski	on-line on-line	paper submited	061				MiG-29 and Su-22 aircraft as air-launch platforms for space rockets
	Sérgio Silva Soares	on-line on-line	paper submitted	075				DATASAT - ADA Ground Station Network. Automatic Directional Antenna for Space Communications on LEO Spacecrafts
	Fayette S. Collier	on-line on-line		0/5	Chair	7dehustau Carai		Toward Environmental Sustainability in Aviation
10:00-10:20	rayette 3. Comer	on-line	Plenary Lecture		cnair	Zdobysław Goraj		TOWARD ENVIRONMENTAL SUSTAINAUMIC III AVIABUDI
16:30-18:00	CEAS CA						+	
	CLAS GA						1	

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Time						24 November 2021	-	
8:00-9:00			Registration					
							Aula	
	Michel Wachenheim	on-line	Plenary Lecture		Chair	Franco Bernelli		Air Transport and Climate Challenge
9:45-10:00								Coffee break
10:00-11:20	-	Full on-site	Control and Flight Tests - 2		Chair	Jonathan Cooper	Aula	
	Kamila Jakubik	on-site	paper submited	149				Automatic take-off control system
	Andrea Dan Ryals/ Giulia Bertolani	on-site	paper submited	166				Adaptive Attitude Control of an Unmanned Helicopter
	Albert Zajdel	on-site	paper submited	088				Next-generation more electric aircraft control system
	Carlo Bettanini	on-site	paper submited	229				Evaluation of light pollution sources over Pistoia area with an autonomous payload for sounding balloons.
10:00-11:20		Mixed	Materials and Structures - 2		Chair	Mirosław Rodzewicz	Room1	
	Johannes Dillinger	on-line	paper submited	087				Structural Optimization of an Aeroelastic Wind Tunnel Model for Unsteady Transonic Testing
	Nicolo Fabbiane	on-site	paper submited	081				Aeroelastic-Tailoring of a Wind-Tunnel Model for Passive Alleviation of Static and Dynamic Loads
	Giuseppe Mantegna	on-site	paper submited	090				DESIGN OF MULTILAYERED VAT PANELS BY MEANS OF HIGHER-ORDER PLATE ELEMENTS
	Giuseppe Catapane	on-site	paper submited	086				Evaluation of improved correction factors for the prediction of Helmholtz resonances
10:00-11:20		Full on-line	Spacecraft Design		Chair	Franco Bernelli	Room2	
	Aysha Alharam	on-line	paper submited	070				Linear CubeSat Center of Gravity Optimization
	Derick Fernando Oliveira Fernandes	on-line	paper submited	147				Structural Design and Analysis of a Student CubeSat 1U
10:40-11:00		on-line	paper submited	185				High-frequency stability evaluation of liquid rocket thrust chamber
	Nikolay Kuleshov	on-line	paper submited	053				Some results of research on the LatLaunch project for the launching system of pico- and nanosatellites into low Earth orbit
11:20-11:40								Coffee break
11:40-12:40		Full on-site	Skills for the aerospace sector 2		Chair	Tomasz Goetzendorf-Grabowski	Aula	
	Jacek Mieloszyk	on-site	paper submited	014				The role of PEGASUS in the European aeronautics and space universities exchange of students and professors
	Salvo Marcuccio	on-site	paper submited	171				Science, Technology and Systems Engineering Educational Activities with Stratospheric Balloons
	Franco Bernelli	on-site	paper submited	042_1				Evolution of the (Aero)Space Engineering Studies in Italy in the past 20 years
	Miroslav Šmelko			173				Transfer of the Knowledge Gathered During the Mission of the skCUBE and the GRBAlpha Satellites Into the Education Process
	Session 4/2	Full on-line	UAVs - 1		Chair	Zdobysław Goraj	Room1	
	Cristina Beneitez Ortega	on-line	paper submited	080				Thermal Management Concept Evaluation for a High-Altitude Solar Platform
	Mateusz Kucharski	on-line	paper submited	172				Comparison of high camber airfoil with high lift devices in light unmanned aerial vehicles
	Gazmend Mavraj	on-line	paper submited	118				A Systematic Review of Ground-Based Infrastructure for the Innovative Urban Air Mobility
12:40-13:00		on-line	only presentation	056				Augmented, multi-purpose drone optic-flow odometry sensor with altitude measurement correction
11:40-12:40		Full on-site	Aerodynamics - 2		Chair	Krzysztof Szafran	Room2	
	Łukasz Kiszkowiak	on-site	paper submited	157				Aerodynamic analysis using Computational Fluid Dynamics methods in the development process of an aerobatic aircraft
	Nezar Sahbon	on-site	paper submited	091				CFD study of base drag of the Grot rocket
	Mariachiara Gallia	on-site	paper submited	156				Optimization of a nacelle electro-thermal ice protection system for icing wind tunnel testing
12:40-13:00								
13:00-14:00			2 2 2 2 2					Lunch
14:00-15:20		Full on-site	Green Aircraft/Clean Sky		Chair	Jacek Mieloszyk	Aula	
	Daniel Frank	on-site	only presentation	047				Exhaust Emission Measurement and Analysis of a Rotax 915 Aircraft Piston Engine with Conventional and Alternative Fuels
	Pieter-Jan Proesmans	on-site	paper submited	054				Hydrogen Aircraft Design Optimisation for Minimal Global Warming Impact
	Michel Van Eenige	on-site	paper submited	046		2011		CLAIRPORT - Environmental impact assessments at airport level in Clean Sky 2 TE
	Session 5/2	Full on-site	UAVs - 2	4.42	Chair	Mikołaj Jarkowski	Room1	
	Luis Miguel García-Cuevas González	on-site	paper submited	143				Feasibility study of a fuel cell-powered unmaned aerial vehicle with 75 kg of payload
	Aleksandra Pasich	on-site	paper submited	145				Proposal of reorganization in airspace structure and other facilities for the needs of future Unmanned Aircraft services
	Karol Bęben	on-site	paper submited	136		u		Architecture of the UAV Swarm Command and Control Systems - an overview
14:00-15:20		Full on-line	Aerodynamics - 3	120.4	Chair	Krzysztof Szafran	Room2	Numerical study of a Associate Manda in Datasas valida
	Ashish Vashishtha	on-line	paper submited	129_1				Numerical study of an Aerospike Nozzle in Retropropulsion
	Ashish Vashishtha	on-line	paper submitted	129_2				Effects of Freestream Disturbances in front of Spiked Blunt Nose at Hypersonic Flow
14:40:15:00	Ndivhuwo Musehane	on-line	paper submited	109				Effect of significant deceleration on boundary layer properties of a laminar flat plate
15.00 10.00	CEAC D-T						+	
15:00-18:00 19.00	GALA DINNER						+	
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T1						25 November 2021		
Time 8:00-9:00			Danistantia a	+		25 November 2021	_	
8:00-9:00			Registration				Aula	
9:00-9:45		on-line			a		Auia	Fuselage BLI Propulsion Integration - Insights from H2020 CENTRELINE
9:00-9:45	Arne Seitz	on-line			Cnair	Zdobysław Goraj		Coffee break
10:00-11:40	Sanian C/A	Mixed	Satellite Dynamics and Control		Chain	Salvo Marcuccio	Aula	Comee Dreak
				400	Chair	Salvo Marcuccio	Auia	
	Gabrielle Esnault	on-site	paper submited	102				Design and CFD analysis of the LOX/LCH4 dual regenerative cooling circuit of the DemoP1 Demonstrator
	Szabolcs Grünvald	on-site	paper submited	083				Attitude Control System of an Earth Observation Satellite
10:40-11:00		on-line	paper submited	067				Machine Learning Techniques for Detection and Tracking of Space Objects in Optical Telescope Images
	Mashairo Kanazaki	on-line	paper submited	175				Stage Separation Dynamics Optimization to Avoid Collision During TSTO Separation by Aerodynamics and Flight Dynamics Simulation
	Krystian Borodacz	on-site	only presentation	096				Optimal space debris deorbitation strategy
	Session 6/2	Full on-line	Aircraft Design -2		Chair	Tomasz Goetzendorf-Grabowski	Room1	
	Michael Rohdenburg	on-line	paper submited	084				Holistic Low-Effort Model for Damage Tolerance Analysis in Preliminary Design
10:20-10:40	Bartłomiej Dziewoński	on-line	paper submited	045				Preliminary design of a supersonic passenger aircraft
	Michał Jędrak	on-line	paper submited	161				Finite Element Analysis of the Suspended Satellite Rocket Weight Effect on the Strength and Deformability of the MiG-29 Aircraft Structure
	Daniel Schmeling	on-line	paper submited	140				Overhead cooling device reducing thermal stratification at displacement ventilation
11:20-11:40								
	Session 6/3	Full on-line	Materials and Structures - 3		Chair	Mirosław Rodzewicz	Room2	
	Cheng Angelo Yan	on-line	paper submited	066				Analysis of Lightweight Structures using Physics Informed Neural Networks
	Mirco Zaccariotto	on-line	only presentation	165				Efficient modelling of fatigue crack propagation with a FEM-peridynamics coupled approach
	Florian Franke	on-line	paper submited	111				Investigation of impacts between unmanned aerial vehicle motors and various targets
	Renaud Bertoni	on-line	paper submited	132				Predictive approach of rotating equipment, gears and bearing faults
	Marco Lo Cascio	on-line	paper submited	082				A hybrid VEM/BEM numerical technique for simulating damage in composite materials
11:40-12:00								Coffee break
12:00-13:20		Full on-site	Space Mission Analysis and Design -2		Chair	Salvo Marcuccio	Aula	
	Franco Bernelli	on-site	paper submited	042_2				Feasibility analysis of GNSS-based navigation for LUMIO mission
	Franco Bernelli	on-site	paper submited	042_3				Re-entry predictions of space debris for collision avoidance with air traffic
	Xingchuan Liu	on-site	paper submited	085				Model predictive control for rigid satellite formation with underactuated propulsive system based on relative orbital elements
13:00-13:20		on-site	paper submited	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 Kiszkowiak	Room1	
	Kazuhisa Chiba	on-line	paper submited	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 submited	089				Nonlinearities in off-diagonal GAF matrix elements in the scope of T-tail flutter
12:40-13:00	Stefano Bortolotti	on-line	paper submited	142				A variable fidelity optimisation procedure for multi-airfoil design
	Yeongmin Jo	on-line	only presentation	158				Development of A Mid-Fidelity Aerodynamic Analysis Code for eVTOL Aircrafts
	Session 7/3	Full on-line	UAVs - 3		Chair	Mikołaj Jarkowski	Room2	
	Mariusz Jacewicz	on-line	paper submited	126				Quadrotor motion analysis and control in wind field environment
12:20-12:40	Dominik Tokarz	on-line	paper submited	155				VR environment for UAV pilots training with automated flight assessment system
12:40-13:00	Michal Skowron-Nadulski	on-line	paper submited	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 ceremnoy					