

Time			Paper ID		6 November 2024		
8:00-9:00		Registration					
9:00-9:50		Opening				Room1	
9:00-9:10	Tomasz Goetzendorf-Grabowski						Welcome by PSAA president and READ chair
9:10-9:30	Artur Rusowicz						Welcome speech by Dean of The Faculty of Power and Aeronautical Engineering (MEIL), Warsaw University of Technology
9:30-9:50	Zdobysław Goraj						Welcome speech by former chair, creator and originator of READ/RRDPAE conference
10:00-10:30	Andrea Alaimo	Plenary Lecture		Chair	Tomasz Goetzendorf-Grabowski	Room1	Flight simulators in education and research
10:30-10:50							Coffee break
10:50-12:30	Session 1/1	Aircraft Design -1	Paper ID	Chair	Zdobysław Goraj	Room1	
10:50-11:10	Nikolaos Kalliatakis		32				Improving Aerial Wildfire Fighting Effectiveness Using Future Climate Sensitivities and Novel Aircraft Concepts
11:10-11:30	Dani Hotters		25				Design and Assessment of Strategic Airlifters for Rapid Deployment & Humanitarian Aid
11:30-11:50	Felix Kuhnert		26				Design of Unmanned Combat Aerial Vehicles and their Integration into a Strike Aircraft Group: A System of Systems Approach
11:50-12:10	Wojciech Kulczyk		34				The Experimental Investigation of The Influence of Wing-Propeller Interference – a Case Study
12:10-12:30	Agnieszka Kwiek		37				The impact of wingle's geometry on aerodynamics and stability of tailless aircraft
10:50-12:30	Session 1/2	Aerodynamics - 1		Chair	Tomasz Goetzendorf-Grabowski	Room2	
10:50-11:10	Anna A. Kostek		04				Aerodynamic interactions in quadcopter configurations with vertical rotor spacing
11:10-11:30	Edmund Havran		68				A CFD Investigation of an UAV Fixed-pitch Rotor in Flight Regime Transition
11:30-11:50	Jan Michna		80				Investigation of Aerodynamic Performance of the NACA 0018 Airfoil at Low Reynolds Numbers:
11:50-12:10	Łukasz Kiskowskiak		73				A Comparative Study of 2-D and 3-D Models Using Transition SST and k- ω SST Approaches
12:10-12:30	Wieżczyśław Stalewski		22				Aerodynamic analysis of high-cambered morphing airfoils for Micro Unmanned Aerial Vehicles applications
12:30-13:30							A Computational Study on Improving the Performance of a Small Unmanned Helicopter by Modifying Its Main Rotor
12:30-13:30							Lunch
13:30-14:00	Paweł Waligóra	Plenary Lecture		Chair	Tomasz Goetzendorf-Grabowski	Room1	Aerial archaeology using UAV
14:00-14:20							Coffee break
14:20-16:00	Session 2/1	UAVs - 1		Chair	Łukasz Kiskowskiak	Room1	
14:20-14:40	Agnieszka Kwiek		13				Concept of the UAV with the hybrid propulsion system
14:40-15:00	Mateusz Papis		75				Utilization of Topology Optimization and Generative Design for Drone Frame Optimization
15:00-15:20	Rafał Frąckowiak		71				Assessing the Effectiveness of Thermal Imaging and UAV Technology for Summer Wildlife Detection
15:20-15:40	Justyna Pluta		91				Optimization of the Unmanned Aerial Vehicle Wing Planform to Maximize Flight Endurance
15:40-16:00	Jakub Kuliberda		17				Determination of UAV loads based on flight simulation results
14:20-16:00	Session 2/2	ATC & Urban mobility		Chair	Robert Głębocki	Room2	
14:20-14:40	Štěpán Kaspar		70				Advanced Passive Safety Systems for Aircraft: Numerical Simulation of Parachute Inflation
14:40-15:00	Joanna Macheta		58				Remote Tower – Chances and Considerations
15:00-15:20	Antoni Kopyt		23				Simulation of Urban Air Mobility Traffic
15:20-15:40	Grzegorz Drupka		45				Analysis of changes in European air traffic flow after the 2022 armed conflict in Ukraine
15:40-16:00	Anna Mazur		72				Unmanned Aerial Vehicle Configurations in Crisis Management
18:00-21:00	Welcome reception						

7 November 2024						
8:00-9:00		Registration				
9:00-9:45	Tomasz Krysiński	Plenary Lecture	Chair	Tomasz Goetzendorf-Grabowski	Room1	Future of disruption in aviation will come quicker than you think
9:45-10:00						Coffee break
10:00-11:40	Session 3/1	Aerodynamics - 2	Chair	Mariusz Kowalski	Room1	
10:00-10:20	Katarzyna Kania		05			The Aerodynamic Study on the Mutual Aerodynamic Impact of the Wings in the Tandem Wing Configuration
10:20-10:40	Monika Mederska		40			The project of research rig for analysis of aerodynamic impact of the wing in the tandem wing configuration
10:40-11:00	Jaroslav Juračka		29			Input Data Determination for Flutter Resistance of Small Aircraft
11:00-11:20	Lukáš Dubnický		30			Preliminary design of morphing flaperon using optimization by genetic algorithm
11:20-11:40	Agata Kuśmierk		77			Hybrid Gas-Electric Multi-Engine Testbed - Results of Research
10:00-11:40	Session 3/2	Aircraft Design - 2	Chair	Zdobysław Goraj	Room2	
10:00-10:20	Jan B. Vos		60			CEASIOMpy: A Modular and Open-Source Python Environment for Aircraft Design – A Tool for Rapid Evaluations
10:20-10:40	Robert Rogólski		33			Application of Finite Element Models of Aircraft Structures for Aeroelastic Flutter Analysis
10:40-11:00	Andrea Alaimo		92			Experimental assessment of Crashworthiness Capability of thin-walled CFRP tubes: using filament winding to enhance the energy absorption efficiency
11:00-11:20	Anna Galińska		35			Improvement of bolted joining in fibre-reinforced composites
11:20-11:40	Jakub Suszyński		38			Kinematic simulation in the aircraft landing gear design and optimization process
11:40-12:00						Coffee break
12:00-13:00	Session 4/1	UAVs - 2	Chair	Grzegorz Drupka	Room1	
12:00-12:20	Kenan Majewski		16			Adaptive Kalman Filter for UAV Dynamic Flight Maneuvers
12:20-12:40	Katarzyna Pobikrowska		61			Optimal control in the transition phase of an eVTOL UAV in a hybrid configuration
12:40-13:00	Mohammed Edawdi		21			State-of-the-Art in Energy Optimization for Quadcopter UAVs: Trends, Techniques, and Future Directions
13:00-13:20	Rafał Knap		27			Enhancing Aviation Training Through Micro Learning and Large Language Models: A Bayesian Network Approach
12:00-13:20	Session 4/2	Training	Chair	Agnieszka Kwiek	Room2	
12:00-12:20	Tomasz Rogalski		74			Flight Laboratories Role in Aviation Related Projects and Teaching Methodology Development. Polish and Georgian Case Studies
12:20-12:40	Tomasz Rogalski		44			Airmanship, the Modern Pilot Model
12:40-13:00	Franciszek Dul		90			Why identification fails in modeling of flying objects for simulators and why this cannot be overcome? New approach to modeling based on AI concepts
13:20-14:20						Lunch
14:20-14:45	Zdobysław Goraj, Remzo Dedic	Plenary Lecture	Chair	Tomasz Goetzendorf-Grabowski	Room1	Aerospace research conducted at the Mostar Technical University - a Historical Approach
14:45-15:00						Coffee break
15:00-16:40	Session 5/1	Stability & control	Chair	Tomasz Goetzendorf-Grabowski	Room1	
15:00-15:20	Sara Waśniewska		01			Integrated Automatic Control of the ARCHER Compound Helicopter
15:20-15:40	Łukasz Kiciński		07			Adaptive Model Predictive Control of the Unmanned Rotorcraft using Recursive Least Squares Parameter Estimation
15:40-16:00	Dariusz Miedziński		59			Using Direct Methods for Solving Optimal Missile Control Problems
16:00-16:20	Agnieszka Kwiek		39			Airborne launch system for delivery of small payload to low earth orbit
16:20-16:40	Dawid Florczak		36			Optical Measurement System Supporting the Navigation of Rapidly Rotating Objects
15:00-16:40	Session 5/2	Aircraft Design - 3	Chair	Marcin Figat	Room2	
15:00-15:20	Sebastian Kuk		06			Hydrogen-powered ultralight training aircraft – a systems engineering approach
15:20-15:40	Wojciech Grendysa		76			Design and analysis of heat transfer for the front electric sustainer propulsion system of the PW-6 glider
15:40-16:00	Schneider Johannes		11			Identification and Investigation of Aspect Ratio Definition and Mean Aerodynamic Chord for Blended Wing Body Aircraft: Balancing Geometric and Aerodynamic Considerations
16:00-16:20	Dominika Kacik		93			Review of the Advantages and Challenges of Strut-Braced and Truss-Braced Aircraft
16:20-16:40	Stanisław Gajek		67			Analysis of In-flight Loads on a PW-6U Glider using Wing Deflection and Acceleration Measurements
16:40-17:00						Coffee break
16:40-17:00	Student paper jury					
17:00-17:20	Closing ceremony					
19:00- ..	GALA DINNER					