

INTERNATIONAL CONFERENCE ON MILITARY SCIENCE



Monday 3rd March 2025		
19:00 – 21:00	Icebreaker at Training and Conference Center	
	Tuesday 4th March 2025	
	Military dormitory no. 7	
08:30 - 09:00	Registration	
09:00 – 09:15	Opening ceremony	
09:15 – 11:30	Panel Military Mechatronic Systems – Part I	
09:15 – 09:30	UAVs Countermeasures Aurelia Adamczak, Wiktoria Weber (MUT – Poland)	
09:30 – 09:45	Feasibility of using a 4x4 hybrid platform for military use Robert Nicolae Agafiței, Ionuț Cătălin Florica (MTA – Romania)	
09:45 – 10:00	Mixed reality in the military training process Jerzy Kaczorowski, Adrian Wiśniewski, Maria Rychwicka, Michał Zarzycki (MUT – Poland)	
10:00 – 10:15	Features of the use of fiber-optics FPV drones and the main methods of combating them Maksym Hryshchuk, Yurii Zhuravskyi (KZMI – Ukraine)	
10:15 – 10:30	Improving human-machine interaction in unmanned operations by optimizing interferences Michał Machno (MUT – Poland)	
10:30 – 10:45	Aerodynamic design of a high-lift system for a supercritical airfoil Corina- Maria Țoca (MTA – Romania)	
10:45 – 11:00	Flight simulation and structural analysis of a quadcopter Maciej Pajunk, Norbert Supeło, Tomasz Pacana, Wacław Woszczyk, Kasjan Pawelec (MUT – Poland)	
11:00 – 11:15	Development of a Micro-turbojet Test Rig for Investigating Effects of Alternative Fuel Botond Kis (NUPS – Hungary)	
11:15 – 11:30	The use of reverse engineering in the process of developing missile design documentation Bartosz Zasowski, Mikołaj Zelga (MUT – Poland)	
11:30 - 12:00	Coffee break	
12:00 – 15:15	Panel Military Mechatronic Systems – Part II	
12:00 – 12:15	Wing Design and Winglet Influence on Induced Drag in a Fixed-Wing Tactical UAV Gabriela-Giorgiana Rusu, Daniel Măriuța (MTA – Romania)	
12:15 – 12:30	The Flight On-board Computer of the "LIKWIDATOR" single-stage sounding rocket Albert Skolmowski, Maria Mondzik, Bernard Siodłowski (MUT – Poland)	
12:30 – 12:45	Modern innovation – smart drones with AI for target selection and aerial photo analysis using AI Volodymyr Lepen, Yurii Korniichuk (KZMI – Ukraine)	
12:45 – 13:00	Design of a stand for field repairs of composite aircraft structures Aleksandra Kaźmierczyk (MUT – Poland)	
13:00 – 13:15	2D Aerodynamic Characterization of a High-Lift device Configuration for NACA SC(2)-0412 Supercritical Airfoil	
12.15 12.20	Corina-Maria ȚOCA, Daniel MĂRIUȚA (MTA – Romania)	
	Conceptual design of a power plant designed for an aircraft to reach the speed corresponding to Mach 3.5 Aleksandra Zarubajko (MUT - Poland	
13:30 – 13:45	Developing an unguided "low-drag" type aviation bomb compatible with the MAU-12 ejector rack assembly Mihai Macovei (MTA – Romania)	
13:45 – 14:00	Analysis of the influence of water sucked into the inlet on the operation of an aircraft turbine engine Karolina Rachwał (MUT – Poland)	
14:00 – 14:15	The importance of atmosphere analysis in enclosed spaces on military ships Gabriela Grosu, Andreea Voicu (RNA – Romania)	
14:15 – 14:30	Ground station for the single-stage LIKWIDATOR sounding rocket Adrian Panasiewicz, Filip Sudak, Mateusz Rowicki (MUT – Poland)	
14:30 – 14:45	Advancements in UAV, UAS, and Drone Technologies: Applications and Future Trends Vasil Agov, Georgi Bogdanov, Ivan Mitev (NMU – Bulgaria)	
14:45 – 15:00	Treatment of waste water from ships Theodor-Gabriel Cretu, Teodora Larisa Petrachi (RNA – Romania)	
15:00 – 15:15	The DMA method and its application in studying the dynamic mechanical properties of composite materials Karol Głogowski (MUT – Poland)	
15:15 – 16:00	Lunch at Training and Conference Center	









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Wednesday 5th March 2025		
08:00 - 10:30	Panel: Modern technologies in military logistics systems – Part I	
08:00 – 08:15	Adaptation of Imported Military Equipment to Polish Conditions: A Case Study of MRAP Cougar 4x4 Wojciech Kolasa (MUT – Poland)	
08:15 – 08:30	Modern technologies in military logistics systems Apostol Angelov, Hristina Naydenova (NMU – Bulgaria)	
08:30 - 08:45	Challenges of managing supplies in contested areas Róża Małysa, Mateusz Mazur (MUT – Poland)	
08:45 - 09:00	Revolutionizing Military Logistics: The Impact of AI and Modern Technology Pantelis Pantelidis, Maria Toutsi, Vasilios Vasilikos (HAA – Greece)	
09:00 – 09:15	Blockchain Technology for Ensuring Security in Military Logistics and Supply Chains Sławomir Krzysztof Przybyszewski (MUT – Poland)	
09:15 – 09:30	Study on the Optimization of Cargo Loading on Transporters Constantin Darius Guiu, David Richard Laszlo, Mihail Sebastian Bana (MTA – Romania)	
09:30 – 09:45	The future of last-mile delivery: innovations and trends Oksana Hnat (MUT – Poland)	
09:45 – 10:00	Innovating Military Logistics: Emerging Technologies and Their Strategic Implications Vasilios Dimitriadis, Nikolaos-Ermis Vlassopoulos, Pinelopi Kyriakopoulou (HAA – Greece)	
10:00 – 10:15	Virtual simulations and modeling Joanna Karabin (MUT – Poland)	
10:15 – 10:30	Barrier Information System for People with Disabilities on the premises of the University of Defence David Vejvoda, Petr Plíva, Zuzana Holotňáková, Veronika Stupňáková, Vejvoda Tomáš, Ambrožová Erika, Válková Milena (UD—Czech Republic)	
10:30 – 11:00	Coffee break	
11:00 – 15:00	Panel: Development trends in supporting Armed Forces	
11:00 – 11:15	Evaluation of the effectiveness of using a rifle scope trainer in the shooter training process Marcin Wysocki (MUT – Poland)	
11:15 – 11:30	Types of explosives used in the naval military Valentin-Alexandru Misiuc, Georgian Cheța (RNA – Romania)	
11:30 – 11:45	Acoustic Recognition of UAVs Jakub Szadura, Maciej Henzel (MUT – Poland)	
11:45 – 12:00	Exploiting ICMP for covert data trafficking: analysis, implementation, and detection Dominik Havel (UD – Czech Republic)	
12:00 – 12:15	Trends in Development Supporting Armed Forces: Civil and Territorial Defense Sylwia Ziółkowska (WSKZ – Poland)	
12:15 – 12:30	Internet of military things Illia Polishchuk, Yurii Korniichuk (KZMI – Ukraine)	
12:30 – 12:45	Implementation of Drone Swarms in Military Operations Róża Małysa, Mateusz Mazur (MUT – Poland)	
12:45 – 13:00	Breaking Boundaries: The Future of Amphibious Armoured Transporters Alexandra-Maria Văduva (MTA – Romania)	
13:00 – 13:15	Flight plan optimization in next generation flight management systems Mateusz Rowicki, Julia Żelazowska (MUT – Poland)	
13:15 – 13:30	Machine Learning for Building Detection Vítězslav Rout (UD – Czech Republic)	
13:30 – 13:45	Defence expenditure of NATO countries in the third decade of the 21st century Maciej Pielaszkiewicz (MUT – Poland)	
13:45 – 14:00	Examination of the introduction of the probe-and-drogue air-to-air refuelling system in the Hungarian Defence Forces Dániel Német (NUPS – Hungary)	
14:00 – 14:15	Acquisition of necessary production technologies in the context of rebuilding the production capacity of heavy armoured vehicles by the domestic arms industry Filip Matyjas (MUT – Poland)	
14:15 – 14:30	Leveraging UAV Copter Frame as a Directional Antenna to Improve Courier Drone Navigation Daniel Andrei Avram (MTA – Romania)	









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	Wednesday 5th March 2025
11:00 - 15:00	Panel: Development trends in supporting Armed Forces
14:30 – 14:45	GIS application in artillery operations and fire support
	Alžběta Svobodová (UD – Czech Republic)
14:45 – 15:00	Usage of drones on the battlefield. History and present
	Andrzej Kisielewski, Miłosz Nowakowski (MUT – Poland)
15:00 – 16:00	Lunch at Training and Conference Center
Thursday 6th March 2025	
08:30 - 09:30	Final ceremony – aula in building 135
09:45	Group photo – in front of the main building of MUT
10:00 - 15:00	Trip - Wilanów Palace
15:00 – 16:00	Lunch at Training and Conference Center





