

2nd Conference AUTONOMOUS TRANSPORT Gdynia, 9th of December 2025 Faculty of Navigation, Gdynia Maritime University Al. Jana Pawła II 3	
0800 - 1000	Conference participant registration: Faculty of Navigation, Gdynia Maritime University Al. Jana Pawła II 3 Welcome Coffee
1000 - 1010	Opening of the conference prof. Adam Weintrit, Master Mariner, Rector of Gdynia Maritime University Place: Main Lecture Hall (Aula) of the Gdynia Maritime University, Faculty of Navigation Introduction to the conference prof. Zbigniew Burciu, prof. Adam Weintrit Address by the organizers: prof. Marianna Jacyna, Dean, Faculty of Transport, Warsaw University of Technology prof. Marcin Ślęzak, General Director, Motor Transport Institute, Warsaw prof. Tomasz Neumann, Dean, Faculty of Navigation, Gdynia Maritime University
	Guest speaker lecture
1010 - 1030	Ian Brzezinski A resident senior fellow with the Scowcroft Center for Strategy and Security, a member of the Atlantic Council's Strategic Advisors, an expert of American foreign policy and military affairs, as Deputy Assistant Secretary of Defense for Europe and NATO Policy in 2001–2005. <ul style="list-style-type: none"> – <i>Some perspectives on the evolving dynamics defining the security of the Baltic Sea, wrapping into the important role that autonomous and remotely controlled systems can and should contribute to safeguarding the security of the Baltic</i>
1030-1050	Marek Strosin, Navy Pol-Mil expert, Naval Aviator, Leader, Security Cooperation Professional, USN Captain, Retired. Senior director at AEVEX Aerospace. Tomasz Borowik, CEO SR Robotics <ul style="list-style-type: none"> – <i>Autonomous and remotely controlled unmanned units in the Dual Use system, from critical infrastructure protection to maritime defense operations.</i>
1050-1110	Marianna Jacyna, Emilian Szczepański, Roland Jachimowski, Faculty of Transport, Warsaw University of Technology <ul style="list-style-type: none"> – <i>Automation and Autonomization of Container Terminals: Development Directions, Challenges, and Prospects for Global Logistics</i>
1110-1130	Zbigniew Szozda - Minister's Representative for MASS <ul style="list-style-type: none"> – <i>Maritime Administration Activities in the Field of MASS Shipping</i>
1130-1200	Coffee Break
1200-1215	Marek Narewski, Polish Ship Register of Shipping, R&D Division Director Ewelina Galant, Polish Register of Shipping <ul style="list-style-type: none"> – <i>USV Certification as Seen from PRS and other Class Societies Perspective</i>
1215- 1230	Maciej Rek – CEO Enamor <ul style="list-style-type: none"> – <i>Conversion – 1st Step to Mission Autonomy</i>
1230-1245	Teresa Abramowicz-Gerigk, Zbigniew Burciu, Adam Weintrit, Gdynia Maritime University <ul style="list-style-type: none"> – <i>Application of the RCM System Based on the Magnus effect to improve the maneuverability of ASV/AUV in Determination of the Theater during Maritime Operations</i>
1245- 1330	Coffee Break, Lunch

1330-1600	Plenary Session A1	Plenary Session A2	Plenary Session A3
	Main Lecture Hall (Aula) Chairmen: prof. Teresa Abramowicz-Gerigk prof. Mariusz Izdebski	Lecture Aud. Max. Chairmen: prof. Andrzej Czerepicki prof. Ireneusz Czarnowski	Lecture N-110 Chairmen: prof. Zbigniew Pietrzykowski SSO dr Dominika Wetoszka
1330-1345	Mariusz Kostrzewski The use of Bézier Curves as Trajectories for Autonomous Internal Means of Transport	Andrzej Chudzikiewicz, Anna Stelmach Autonomy in Railway Conditions vs. Autonomy in the Metro	Mirosław Wielgosz, Oskar Desecki, Zbigniew Pietrzykowski, Janusz Uriasz Hybrid Approach for Ship Movement Anomaly Detection: DBSCAN Clustering and Neural Network Prediction"
1345-1400	Konrad Lewczuk Assessing Internal Transport Systems for Autonomous Deployment: toward a Classification Framework	Michał Lasota, Marianna Jacyna, Mariusz Wasiak Autonomous Road Transport of Oversized Loads: Analysis of Challenges and Potential.	Barbara Stepień The Duty to Render Assistance at Sea in the Age of Autonomy: A Comparative Analysis of MASS and Military Sea Drones
1400-1415	Mariusz Izdebski, Paweł Gołda Ilona Jacyna-Gołda Environmental Hazard Management System for Railway	Michał Kozłowski, Maciej Kozłowski Andrzej Czerepicki Application of LLMs on Edge Devices to Steer the Transport Process	Dominika Wetoszka Nautical Fault Exception vs. Maritime Autonomus Transport
1415-1430	Michał Kłodawski The use of UAVs in Last-Mile Logistics: Opportunities, Constraints and Potential Benefits of Autonomous Drone Delivery Systems	Ireneusz Czarnowski Marta Szarmach Detecting AIS Spoofing Using Machine Learning Techniques	Zuzanna Peptowska-Dąbrowska Liability Issues and Accidents Involving MASS: Who Should Pay the Bill?
1430-1500	Coffee break		
1500-1515	Muktar Bedaso Kuyu, Rafał Szlapczynski Towards Deep Learning-Based Prediction and Classification of Vessel Encounters for Enhanced Autonomous Ship Navigation	Norbert Tuśnio Monitoring the Work Environment Using Sensors Worn by Rescuers And Autonomous Robots To Penetrate Endangered Buildings	Alicja Mrozowska, Piotr Mrozowski The Legal and Regulatory Challenges Associated with the Development of Maritime Autonomous Surface Ships (in the context of the owner)
1515-1530	Monika Rybczak The Effect of the HS-PSO Method on the Performance of the LMI Controller on Ship	Agnieszka Lazarowska Machine Learning-Based Collision Avoidance and Path Planning for Autonomous Ships	Małgorzata Daniszewska Analysis of the selected legal issues related to the introduction of the autonomous ships into maritime transport
1530-1545	Łukasz Trzcński Advancing Maritime Autonomy: Dual-Use Solutions for Modern Surface Operation	Andrzej Smacki Autonomous Vehicle Mission Planning in Offshore Operations	Eric Kulbiej, Zbigniew Pietrzykowski Determining the Last Effective Anti-Collision Maneuver for Maritime Autonomous Surface Ships Using Control Space Mapping
1545-1600	Piotr Gołębiowski, Jacek Kukulski, Ignacy Góra, Yaroslav Bolzhelarskyi A Monte Carlo-based Method for Assessing Energy-Related Operational Risks in Railway Undertakings		
1600 -	Coffee, Lunch		

POSTER SESSION

- A. Integration of Fuzzy Logic with Guidance Vector Fields for Improved Vessel Path-Tracking Performance.
Wnorowski Jakub, Łebkowski Andrzej
Gdynia Maritime University
- B. Optical–AI Maritime Perception System for Autonomous Surface Vessels
K. Kwella, A. Łebkowski
Gdynia Maritime University
- C. Humanoid Navigators: The Missing Link Between Human Seamanship and Autonomous Ships
Andrzej Łebkowski
Gdynia Maritime University
- D. Application of Machine Vision and AprilTags in Autonomous Tugboat Navigation
W. Koznowski, A. Łebkowski
Gdynia Maritime University

Chair of the scientific committee
Prof. Dr. Adam Weintrit, Master Mariner
Chair of the organizing committee
Prof. Dr. Zbigniew Burciu, Master Mariner