

3rd International Conference
AUTONOMOUS TRANSPORT
AutTrans'2026
Gdynia, 21–22 September 2026
Faculty of Navigation, Gdynia Maritime University

Conference program

21 September 2026

0800 – 1000

Welcome coffee and registration

1000- 1015

Opening of the conference

Faculty of Navigation Lecture Hall

Adam Weintrit, Rector Gdynia Maritime University
Marianna Jacyna, Dean Faculty of Transport, Warsaw University of Technology
Tomasz Neumann, Dean Faculty of Navigation, Gdynia Maritime University
Jacek Nowicki, Director of Prof. Lech Kobylinski Foundation for Safety of Navigation

1020 – 1110

Invited Speakers Session

Chair: **Zbigniew Burciu**, **Tomasz Neumann**

Judge Dr. Konrad Marciniak, Judge at the International Tribunal for the Law of the Sea (ITLOS) in Hamburg
Autonomous transport from the perspective of the United Nations Convention on the Law of the Sea (UNCLOS)
Prof. Frank Stevens, Erasmus University Rotterdam, Erasmus School of Law, Rotterdam Institute of Shipping and Transport Law
Relation between MASS and COLREGS

1110 – 1230

Plenary session I

Faculty of Navigation Lecture Hall

Chair: **Teresa Abramowicz-Gerigk**, **Joanna Soszyńska-Budny**

Zbigniew Szozda, Representative of the Minister of Infrastructure
Legislative initiatives of the Ministry of Infrastructure in the area of autonomous transportation
Maciej Rek, President of the Management Board, Enamor Sp. z o.o. **Łukasz Przystalski**, Underwater Robotics Expert / Project Manager
Advanced hull inspection using stereoscopic cameras mounted on autonomous and remotely operated underwater vehicles
Magdalena Jabłonowska, QHSE | QHSE Office Director ORLEN Petrobaltic S.A.
Use of remote and autonomous vehicles for monitoring critical infrastructure in Polish maritime areas
Michał Domachowski, Director of Security, Naftoport
Drone technology in the service of security
Grzegorz Pettke, Chairman of the Management Board of PRS S.A.
PRS's activities in the field of autonomous shipping
Adam Przybyłowski, Gdynia Maritime University, **Justyna Suchanek**, Gdynia City Hall
Presentation as part of the collaboration between the City of Gdynia and the Gdynia Maritime University during European Mobility Week 2026
From Smart Cities to Autonomous Mobility: how can we prepare a city for new transportation technologies?

1230-1300

Coffee brake

1300-1420

Plenary round table on maritime law

Faculty of Navigation Lecture Hall

Moderators: **Frank Stevens**, **Konrad Marciniak**

Barbara Stępień, Jagiellonian University in Cracow,
A normative compliance index for autonomous maritime systems: comparing sea drones and civilian MASS
Dominika Wetoszka, University of Gdansk
Management of MASS as a new form of ship management – an analysis of the BIMCO AUTOSHIPMAN agreement
Zuzanna Peplowska-Dąbrowska, Nicolaus Copernicus University in Toruń
MASS under national laws – comparative survey
Lan Ma Associate lecturer in School of Law. University of Reading, UK
Misalignment between control and responsibility in maritime sustainability law in the age of MASS.
Małgorzata Daniszewska, Gdynia Maritime University
The challenges associated with imposing responsibility on the human master in accordance with the newly adopted Mass Code

1420-1520	Lunch		
1520-1710	Panel 2 Faculty of Navigation Lecture Hall	Panel 3 Room 110	Panel 4 Room 111
	Chair: Andrzej Majka Rzeszów University of Technology Andrzej Czerepicki Warsaw University of Technology	Chair: Mirosław Gerigk, Gdańsk University of Technology Mariusz Kostrzewski Warsaw University of Technology	Chair: Piotr Wiśniowski Motor Transport Institute Andrzej Łebkowski Gdynia Maritime University
	Maciej Kozłowski, Andrzej Czerepicki Warsaw University of Technology <i>Agentic AI for transport robotization: from low-code platforms to an edge-based autonomous vehicle</i>	Mariusz Kostrzewski Warsaw University of Technology Wojciech Jerzy Nowak Nicolaus Copernicus University in Toruń <i>A discourse on autonomy and other new features of the Shinkansen System</i>	Tomasz Szczepański Piotr Malawko, Paweł Dziedziak Piotr Wiśniowski Beata Stasiak-Cieślak Motor Transport Institute <i>The effect of advanced driver assistance systems on upper-limb muscle load in drivers with disabilities</i>
	Andrzej Majka Rzeszów University of Technology <i>Mission-driven system design requirements and operational envelope for maritime surveillance and search UAS</i>	Agnieszka Lazarowska Gdynia Maritime University <i>Towards trustworthy machine learning for collision avoidance at sea</i>	Michał Kamiński, SEACOTEC Hamburg, Germany, Joanna Szłapczyńska Gdańsk University of Technology <i>Machine learning models for monitoring and prediction of CHG emissions as an element of a shore-based fleet decision-support system</i>
	Monika Rybczak Gdynia Maritime University <i>Autonomous 2D environment mapping using SLAM algorithms and a LiDAR sensor on the TurtleBot3 Waffle Pi platform</i>	Simon Baradziej UiT The Arctic University of Norway <i>Quantum-safe by design: a maturity framework for cryptographic resilience in maritime autonomous surface ships.</i>	Aleksandra Wawrzyńska Gdynia Maritime University <i>Port infrastructure readiness for autonomous ships: measurement-based assessment of quay geometry: a Baltic port case study</i>
	Ryszard Studanski, Andrzej Łuksza Łukasz Wojewódka, Dawid Budnarowski Gdynia Maritime University Agnieszka Czapiewska Gdansk University of Technology Andrzej Zak, Michał Blumka Polish Naval Academy <i>Demonstrator of a wireless underwater communication system</i>	Jacek Nowicki, Andrzej Hejmlch, Dominik Wernikowski, Janusz Wolniak Prof. Iech Kobylinski Foundation For Safety of Navigation – Ilawa <i>The Ilawa Ship Handling Centre is preparing for remote piloting training</i>	Teresa Abramowicz-Gerigk, Zbigniew Burciu, Edyta Książkiewicz Gdynia Maritime University <i>Operational risks in a mixed navigation environment</i>
			Norbert Tuśnio Fire University Warsaw <i>Autonomous UAV–UGV systems for detection of explosive materials and crisis management support in critical infrastructure protection</i>
1710 -	Poster session		
	Jakub Wnorowski, Andrzej Łebkowski, Gdynia Maritime University <i>Impact of Navigation Data Degradation on Autonomous Surface Vessel Route-Following Performance</i>		
	Wojciech Koznowski, Łebkowski Andrzej, Gdynia Maritime University <i>An autonomous harbor cleaning vessel that avoids interrupting port operations</i>		
	Kwella Krzysztof, Łebkowski Andrzej, Gdynia Maritime University <i>Visual Data Processing in Nighttime SAR Operations"</i>		
1730 -	Dinner Room N 114		

22 September 2026

0900-1000

Welcome Coffee and Registration for the Young Scientists' Panel

1000- 1200

Young Scientists' Panels

Panel 5 Faculty of Navigation Lecture Hall	Panel 6 Room 110	Panel 7 Room 111
Chair: Andrzej Łebkowski Gdynia Maritime University Rafał Szlapczyński Gdańsk University of Technology	Chair: Teresa Abramowicz-Gerigk, Andrzej Hejmlch Gdynia Maritime University	Chair: Barbara Stępień, Jagiellonian University in Cracow Dominika Wetoszka, University of Gdansk
Abu Santure Boru, Rafał Szlapczyński Gdańsk University of Technology <i>Compressing Vessels' AIS Trajectories with Preservation of Critical Features: Traditional Methods Against State-of-the-Art</i>	Kazem Rash, Homayoun Yousefi University of Marine science and technology, Khorramshahr, Iran <i>Operational integration of unmanned aerial systems for maritime search and rescue: from platform capability to SAR capability</i>	Katarzyna Stalmach Jagiellonian University in Cracow, <i>Sea Drones from the Perspective of the North Atlantic Treaty Organization</i>
Jacek Jachowski, Zbigniew Burciu Gdynia Maritime University <i>MASS operator situational awareness in storm conditions</i>	Karol Żmich, Mirosław Gerigk Gdańsk University of Technology <i>An AUV platform for monitoring and reconnaissance of 3D underwater sphere</i>	Dominika Szpaczek Jagiellonian University in Cracow <i>Charting Multiple Courses: A Synergistic Approach to Sea Drones in Hybrid Warfare</i>
Julia Monkiewicz, Zuzanna Lis Gdynia Maritime University <i>Multi-Criteria Analysis of the Use of Autonomous Maritime Units in Military Operation</i>	Bartosz Ożoga, Grzegorz Rutkowski Gdynia Maritime University <i>A Versioned Joint Emergency Contract for a Support Vessel and an AUV under Complete Loss of Communication</i>	Michał Labudda Gdynia Maritime University <i>Autonomous land, air and water systems – a comprehensive technological and market analysis (2020–2025)</i>
Andrzej Smacki Gdynia Maritime University <i>Analysis of MASS Hazards in the Vicinity of Offshore Structures Based on Real-World Operational Data</i>	Mateusz Zawadzki, Doctoral School, Gdynia Maritime University <i>Young people's attitudes towards autonomous cars</i>	Karolina Caban Jagiellonian University in Cracow, Maria Curie-Skłodowska University in Lublin. <i>No ghost in the machine: the traceable path of human accountability for autonomous sea drones</i>

1200

Closing of the 3rd Autonomous Transport Conference

Chair of the Scientific Committee
Prof. Adam Weintrit, Master Mariner

Chair of the Organizing Committee
Prof. Zbigniew Burciu, Master Mariner