

Space Sciences Committee of the Polish Academy of Sciences, Gdansk Branch,
in cooperation with the Baltic Sea & Space Cluster
and Gdansk University of Technology

under

the honorary patronage of the Polish Space Agency

invite for a joint conference entitled

ARTIFICIAL INTELLIGENCE in SPACE and at SEA

Gdansk University of Technology, Auditorium Novum
Gdansk, 23rd May 2024

Conference program

8.30 REGISTRATION

9.00 OPENING SESSION – chaired by **Prof. dr hab. inż. Edmund WITTBRODT** – President of the Space Sciences Committee of the Polish Academy of Sciences

- Welcome address to the participants by **Prof. dr hab. inż. Krzysztof WILDE** - Rector of Gdansk University of Technology
- **Prof. Grzegorz Wrochna** – President of the Polish Space Agency
- **Prof. Marek Moszyński** – Polish Space Agency
- **Prof. Jacek Rumiński** – *AI towards applications – what we can do, where we go*, President of the Scientific Council of Polish Society of Artificial Intelligence, Chairman of the Scientific Council of the Polish Association of Artificial Intelligence, Faculty of Electronics, Telecommunications and Informatics, Gdansk University of Technology
- **Prof. Marek Grzybowski** - *Satellite systems and artificial intelligence track ghost ships carrying crude oil and grains bypassing EU sanctions*, Baltic Sea & Space Cluster

9.50 “YOUNG STARS” SESSION – chaired by **Dr. Jakub KOWALSKI**

- **Maximilian Minta** – *Tests of artificial intelligence trained in a synthetic environment*, Chief Executive Officer, Neptune Studio, max.minta@neptunestudio.eu
- **Prof. Marcin Dornowski, Jakub Hince** – *Effects of EEG neurofeedback intervention on blood CRP level in astronauts attending 2-week analog mission*, Academy of Physical Education and Sport, Gdansk
- **Hanna Wiatrowska, Agata Wiśniewska, Katarzyna Sochaj, Magdalena Sadowska** (Vice President of Technical SimLE) - *STORMDUST - Chemical and microbiological stratospheric differentiation*, STORMDUST - REXUS/BEXUS program, SimLE Students’s Organization, Gdansk University of Technology
- **Małgorzata Majda, Jakub Owsianowski, Magdalena Sadowska** (Vice President of Technical SimLE) - *SimBa R7 hybrid rocket as an innovative research platform*, SimLE Students’s Organization, Gdansk University of Technology

The best presentation will be awarded by the President of the Space Sciences Committee

11.20 COFFEE BREAK

11.30 APPLICATIONS' SESSION – chaired by Prof. Marek GRZYBOWSKI

- Introduction to Panel Session by **Maciej Brzozowski** – *Smart and Green, Port of Hamburg, Marketing Representative Office in Poland (Przedstawicielstwo Portu Hamburg, Marketing w Polsce)* .
- R&D Supporting Presentation by **Adam Matusiak** - *R&D Tax Reliefs and EU subsidies, Sector Sales Director Ayming Polska*
- Participants of Panel Session:
- **Marek Grzybowski**, Phd. Prof. BSW, President of the Management Board of the Baltic Sea & Space Cluster
- **Krzysztof Anzelewicz**, Vice-President of the Management Board of the Baltic Sea & Space Cluster
- **Dorota Sobieniecka-Kańska**, Director of the Gdańsk Business Club
- **Nina Katka**, Chairwoman of the Youth Assembly of the Province of Pomeranian
- **Barbara Matysiak**, Baltic Sea & Space Cluster, Chair of the Baltic Mediation Board

12.50 COFFEE BREAK

13.00 RESEARCH SESSION – chaired by Prof. Michał WASILCZUK

- **Dr. Paweł Chyc** – *Jurisdiction in extraterritorial maritime, space and digital space, University of Business and Administration, Gdynia*
- **Prof. Krzysztof Lipiński, Prof. Mirosław Gerigk, Dr. Eng. Marek Chodnicki** – *Development of a Control System for an Autonomous Seaplane, Gdansk University of Technology*
- **Prof. Krzysztof Falkowski** – *Military University of Technology, Warsaw (tbc)*
- **Prof. Sławomir Augustyn** – *Building of situational awareness by using artificial intelligence - the digital transformation, Military University of Technology, Warsaw*
- **Dr. Eng. Dariusz Rykaczewski, Dr. Eng. Marcin Chodnicki** - *The application of artificial intelligence in unmanned aircraft control and surveillance, Air Force Institute of Technology, Warsaw*
- **Prof. Mirosław K. Gerigk, Dr. Marek Chodnicki** – *A novel hybrid mini-brain AI-based system for an unmanned UAV-WIG platform design, Gdansk University of Technology*

15.00 DISCUSSION AND CLOSING SESSION - by Prof. Edmund WITTBRODT and Prof. Zdzisław BRODECKI

You are welcome to attend this distinguished event.

