

„Artificial Intelligence – In search for synergy” Conference

Space Sciences Committee Polish Academy of Sciences, Gdansk Branch, in cooperation with the Baltic Sea&Space Cluster and Gdansk University of Technology, invites for a joint conference entitled
“Artificial Intelligence – In search for synergy”

Gdansk University of Technology
Gdansk, 19th November 2020

Conference programme

- 8.30 REGISTRATION**
- 9.00 OPENING SESSION – chaired by Prof. dr hab. inż. Edmund Wittbrodt**
- 9.00** Welcome addresses by:
Prof. dr hab. inż. Krzysztof Wilde, Rector of Gdansk University of Technology
Dr. Magdalena Adamowicz, Member of the European Parliament
Dr. Michał Szaniawski, President of Polish Space Agency
- 9.30** *Think out of the box Human Being in the Artificial Intelligence Era*, by Dr. Magdalena Konopacka (University of Business and Administration in Gdynia/Department of Private Law, University of Oslo), Prof. dr hab. Zdzisław Brodecki (University of Business and Administration in Gdynia)
- 9.45** *AI Bay activities in developing the AI applications*, by Prof. Jacek Rumiński, President of AI BAY, Gdansk University of Technology
- 10.00** *AI in space applications*, by Mr. Adam Dąbrowski, Gdansk University of Technology
- 10.15 “YOUNG STARS” Session – chaired by Dr. Paweł Chyc**
- 10.15** *SEA SLuGG - Unmanned Underwater Vehicle UUV in microgravity*, by Mr. Szymon Krawczuk, Mr. Adam Dąbrowski, Mr. Kacper Lorek, Mr. Norbert Szulc, Ms. Dominika Tomaszewska, Mr. Marcin Jasiukiewicz, Mr. Konrad Jeznach, Mr. Wiktor Lachowski, Mr. Wojciech Wysocki, Mr. Rafał Markowski, Mr. Adrian Pluto-Prondziński, SimLE Student's Organisation, Faculty of Mechanical Engineering, Gdansk University of Technology
- 10.30** *Religion of Technology*, by Mr. Adam Labuhn, University of Business and Administration in Gdynia
- 10.45** *Space exploration or Space Wars*, by Ms. Julia A. Hetlof, Lazarski University
- 11.00** *Space for Ambitious*, Ms. Agnieszka Elwertowska, WSB University in Gdańsk
- 11.15** *Artificial intelligence and criminal law - can AI commit a crime?*, by Mr. Paweł Mering, University of Business and Administration in Gdynia
- 11.30** *Legal aspects of space exploitation*, by Dr. Paweł Chyc, PhD, University of Business and Administration in Gdynia
- 11.45** *Satellites in the fight against climate change*, by Ms. Matylda Berus, Lazarski University

12.00-12.15 COFFEE BREAK

12.15 APPLICATIONS' SESSION – chaired by Prof. dr hab. inż. Marek Grzybowski

12.15 *Introduction to practical aspects of Artificial Intelligence in Sea Ports & Maritime Transport & Shipyards*, by Prof. Marek Grzybowski, Baltic Sea & Space CLuster

12.40 Panel debate with participation of representatives of:

- *Artificial Intelligence in Sea Ports*, by Prof. dr hab. inż. Andrzej Stateczny, President of the Marine Technology
- Dr. Eng. Katarzyna Bobkowska, Researcher, Marine Technology
- Mr. Tomasz Lisiecki, President, New Competence Centre
- Mr. Grzegorz Kozłowski, Vice-President, CADOR Consulting
- Mr. Sławomir Nasiadka, Technical and Software Architect Director, Sevenet S.A.

13.30-14.00 LUNCH BREAK

14.00 RESEARCH SESSION – chaired by Prof. dr hab. inż. Andrzej Stepnowski

14.00 *Establishment and conducting joint second degree studies in Space Technologies in Gdansk and Bremen*, by Dr. Eng. Marek Chodnicki, Gdansk University of Technology

14.15 *Maritime and cosmic inspirations for AI algorithm*, by Prof. Marek Galewski, Gdansk University of Technology

14.30 *Application of selected Artificial Intelligence (AI) methods in the energy industry*, by Prof. Jerzy Głuch, Gdansk University of Technology

14.45 *Challenges and examples of AI application in the area of marine navigation*, by Prof. Jakub Montewka, Gdynia Maritime University

15.00 *Challenges associated with development of unmanned underwater vehicles to be operated using the AI controlling systems*, by Prof. Mirosław Gerigk, Gdansk University of Technology

15.15 DISCUSSION AND CLOSING SESSION - by Prof. Edmund Wittbrodt and Prof. Zdzisław Brodecki

Because of the Covid-19 pandemic situation the Conference is treated as the on-line event