

# Robotics to Support Adult Education

Session at the Lektor High-Tech Conference

Lodz University of Technology, Łódź, 8.09.2023

This special session shows the results of the Erasmus+ project: Help educators to teach through robotic tools. We have developed a web-based training course, consisting of 6 modules, aimed at the target groups to enhance their capacity to use robots for adult education. Videos, animations and case studies were used to present the information in a way that is easy to understand for a non-technical audience – all available online at [heartroboticsproject.eu](http://heartroboticsproject.eu). The specific modules are dedicated to different aspects of education, e.g., role of robots in the education process, modeling and fundamentals of robotics, use of Artificial Intelligence, 3D printing technology, and educational robots for persons with disabilities. Armed with the database, the guide and the online training course, the educators who are interested in using robots to support learners, will have the necessary knowledge and skills to get started. All available in 7 languages, with quizzes and certificate.

During two workshops we will introduce you two modules: Robotics as an Innovative Educational Technology and Artificial Intelligence: Emerging opportunities for the science and education sectors.

Program:

12:20-12:50	Robotics to Support Adult Education – Introduction, presentation of aims and results	Grzegorz Granosik, computer room
12:50-14:25	Robotics as an Innovative Educational Technology – Workshop <ul style="list-style-type: none"><li>• Introduction</li><li>• Robotics as a tool to facilitate discussion on social and ethical issues</li><li>• Prototyping modern social service innovations using low-tech methods: Sketching, Storytelling</li><li>• Q&amp;A session</li><li>• Summary</li></ul>	Igor Zubrycki, Grzegorz Granosik, Gertruda Gwóźdź-Łukawska, computer room
	Lunch break	
15:20 – 16:50	Artificial Intelligence: Emerging opportunities for the science and education sectors – workshop <ul style="list-style-type: none"><li>• Welcome words</li><li>• A short introduction to AI</li><li>• A short presentation of 2 AI models:</li><li>• Hands-on time - a session to explore the chosen AI model in depth by performing a specific practical task</li><li>• Presentation of the outcomes - achievements, impressions, considerations.</li><li>• Q&amp;A session</li><li>• Wrap up</li></ul>	Konstantin Gospodinov (TU Delft, online), Gertruda Gwóźdź-Łukawska, Elżbieta Radaszewska, computer room



Lodz University of Technology  
Institute of Automatic Control



The European Commission support for the production of this publication does not constitute an endorsement of the contents which reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein. HEART2021-1-PL01-KA220-ADU-3A153F88