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Artificial Intelligence based Robotics

2023-1-RO01-KA220-HED-000152418

Transnational workshop on robotics and digital twin technology

Date	Venue	Moderator(s) of the day	Programme
11. March	1111 Budapest – Hungary; Lágymányosi str.11.	Gábor Kuser (EKCU) Gábor Erdős (HUN-REN SZTAKI) Zsolt Kemény (HUN-REN SZTAKI) Mátyás Hajós (HUN-REN SZTAKI)	Introduction to the work of HUN-REN SZTAKI Topics of the day: Basic concepts Physical components and principles Demo: Piktör-o-bot, the portrait drawing robot Mathematical basics and robot kinematics



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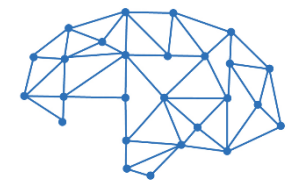


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Date	Venue	Moderator(s) of the day	Programme
12. March	1111 Budapest – Hungary; Lágymányosi str.11.	Gábor Kusper (EKCU) Bence Tipary (HUN-REN SZTAKI) Zsolt Kemény (HUN-REN SZTAKI) Dániel Horváth (HUN-REN SZTAKI)	Introduction to the work of HUN-REN SZTAKI Topics of the day: Mathematical basics and robot kinematics Demo: Camera-based robotic pick-and-place Mathematical basics and robot kinematics Reinforcement learning in robotics



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Date	Venue	Moderator(s) of the day	Programme
13. March	3300 Eger – Hungary; Leányka str. 4.	Gábor Kuser (EKCU) Krisztián Vajda (EKCU)	Topics of the day: Introduction to Unity Introduction to Code Style

Date	Venue	Moderator(s) of the day	Programme
14. March	3300 Eger – Hungary; Leányka str. 4.	Gábor Kuser (EKCU) Krisztián Vajda (EKCU)	Topics of the day: Introduction to Hierarchy Introduction to Inspector Creating a project in 3D



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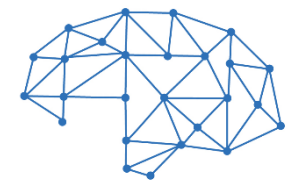
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Date	Venue	Moderator(s) of the day	Programme
15. March	3300 Eger – Hungary; Leányka str. 4.	Gábor Kuser (EKCU) Krisztián Vajda (EKCU)	Topics of the day: Simulations in Unity Basic tutorial project for example 'Roll a Ball'

Date	Venue	Moderator(s) of the day	Programme
16. March	3300 Eger – Hungary; Leányka str. 4.	Gábor Kuser (EKCU) Krisztián Vajda (EKCU)	Topics of the day: Basic tutorial projects Asset importing and Wheel colliders



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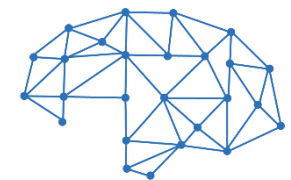
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Date	Venue	Moderator(s) of the day	Programme
18. March	3300 Eger – Hungary; Leányka str. 4.	Gábor Kuser (EKCU) Péter Csóka (EKCU)	Topics of the day: Self-Driving and Virtual Sensors Designing Training Courses for Autonomous Systems

Date	Venue	Moderator(s) of the day	Programme
19. Marc	3300 Eger – Hungary; Leányka str. 4.	Gábor Kuser (EKCU) Krisztián Kuser (EKCU)	Topics of the day: Neural networks in practice Unity & ROS



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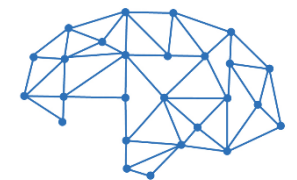
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Date	Venue	Moderator(s) of the day	Programme
20. March	3533 Miskolc – Hungary; Iglói u. 2.	Gábor Kuser (EKCU) Dávid Polonkai (EKCU – BZ Ltd.) László Árvai (EKCU – BZ Ltd.)	Introduction to the work of the Bay Zoltán Nonprofit Ltd. for Applied Research Topics of the day: Demo - Pepper Object detection – YOLO

Date	Venue	Moderator(s) of the day	Programme
21. March	3533 Miskolc – Hungary; Iglói u. 2.	Gábor Kuser (EKCU) Roland Bartók (EKCU – University of Miskolc) Máté Ternay (EKCU – BZ Ltd.)	Topics of the day: ROS Robotic arms



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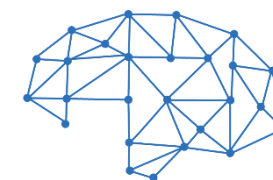
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Date	Venue	Moderator(s) of the day	Programme
22. March	3533 Miskolc – Hungary; Iglói u. 2.	Gábor Kuser (EKCU) László Árvai (EKCU – BZ Ltd.)	Topics of the day: ROS Indoor calization Demo: Robotic arms

Date	Venue	Moderator(s) of the day	Programme
23. March	3533 Miskolc – Hungary; Iglói u. 2.	Gábor Kuser (EKCU) Krisztián Vajda (EKCU)	Topics of the day: Upload the schedule to the Robot Summary of the workshop



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