



University of Maribor

Faculty of Agriculture
and Life Sciences

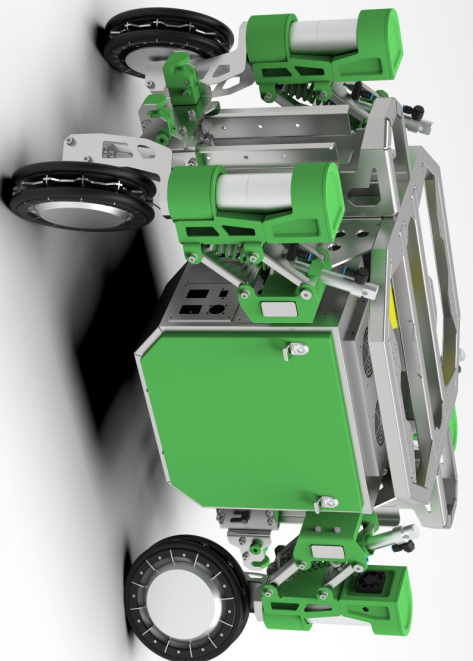
University of Maribor
Faculty of Agriculture and Life Sciences
Biosystems Engineering

FRF2023

Maribor - SLOVENIA, 12. - 15. June

20th anniversary

www.feldrobot.com/event



Field Robot Event 2023

Welcome to the 20th Field Robot Event

This year, the Field Robot Event (FRE) will take place from 13th to 15th of June 2023 at the University of Maribor in Slovenia, specifically at the Faculty of Agriculture and Life Sciences. Teams from all over Europe will once again meet and compete with their small autonomous field robots to prove that they are the best.

This will be the 20th FRE and a special occasion to reflect on the work done over the last 20 years. It will show to the spectators that FRE is much more than just a competition. It is a breeding ground for new ideas and solutions that will fundamentally change the traditional way of farming.

What is FRE?

FRE is an annual competition in which international student teams from Europe and the world compete with their field robots to find the best solutions to agricultural mechanisation problems. The competition was initiated in 2003 and has since established itself as a permanent fixture in agricultural robotics. The aim of the competition is to test future-oriented technologies in the field of robotics and precision farming in real field conditions, and to give young scientists the opportunity to exchange ideas in an international circle of participants, to form networks and to

further develop their ideas. Tasks in the field of navigation and application have to be solved in an experimental field with maize plants.

This year the FRE will focus on the following tasks:

- **Navigation** – show that robots can move autonomously through the field and know precisely where they are and what to do next
- **Treatment of plants** – to prove that smart robotic systems can precisely detect and treat plants where needed, saving a huge portion of input resources
- **Sensing** – demonstrate that AI driven solutions will help the robots to distinguish the objects in sight without the need of human intervention
- **Obstacle avoidance** – improve the safety mechanisms of agricultural machines in order to prevent injuries of human beings and help protect wild life

Program - June 12th to 15th, 2023

Monday, June 12th

12:00 – 18:00 Team registration / testing
18:00 – 19:00 Briefing of team captains
18:00 – 20:00 Dinner

Tuesday, June 13th

07:00 – 9:00 Breakfast
09:00 – 10:00 Welcome note
10:00 – 12:00 1st Task
12:00 – 14:00 Lunch
14:00 – 16:00 2nd Task

18:00 – Awarding ceremony
18:00 – 20:00 Dinner

Wednesday, June 14th

07:00 – 9:00 Breakfast
10:00 – 12:00 3rd Task
12:00 – 14:00 Lunch
14:00 – 16:00 4th Task
18:00 – Awarding ceremony
18:00 – 20:00 Dinner

Thursday, June 15th

07:00 – 9:00 Breakfast
10:00 – 12:00 5th Task
12:00 – Awarding ceremony, Farewell

FRE location

Faculty of Agriculture and Life Sciences
Pivola 10
2311 Hoce
Slovenia
GPS: 46.505555 N, 15.622243 E

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or

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For more information check:
www.fieldrobot.com/event