





Robotic weeding in sugar beet

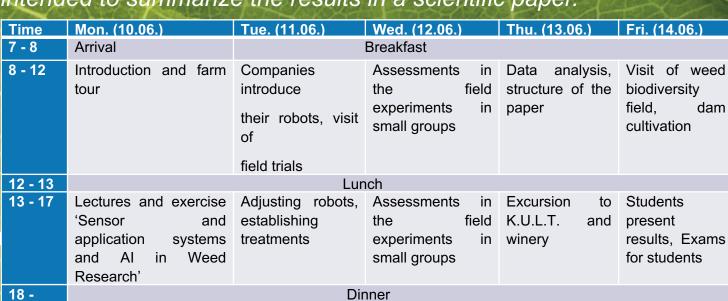


University of Hohenheim, Germany, 10 – 14 June 2024

The background of this workshop is to combine basic principles of Artificial Intelligence, sensor- and application technologies in plant protection with practical applications in robotic weeding in fields with sugar beet. The ELLS summer school is combined with a meeting of interested members of the EWRS working groups on "Site-specific weed management" and "Physical and Cultural Weed Control", therefore facilitating knowledge exchange between experienced researchers, master and PhD students.

Workshop program

At Ihinger Hof, we will set up two field experiments in sugar beet examining hoes and spot/band sprayers that utilize different sensor systems for machine guidance and weed/crop identification. The following robots will be tested: Farm Droid FD 20, Naïo-Tech Orio, K.U.L.T.-iVision, Farming GT by Farming Revolution, Ecorobotix ARA, Hohenheim Inrow hoe, Hohenheim hoe and band sprayer. We will use Neural Networks to train weed species for automatic classification during the workshop and compare the sensor systems in terms of guidance and identification accuracy, evoked crop stress, weed control efficacy, and perform an economic and ecological analysis of these systems. It is intended to summarize the results in a scientific paper.





- Costs: 180€ (incl. food and accomodation)
- Venue: Research Station Ihinger Hof, Renningen, Germany
- > 6 ECTS
- Further information and contacts: www.euroleague-study.org/en/robotic-weeding



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