

International Summer School "Agricultural Robotics"

August 24-28, 2021

<https://agrirobotics.wordpress.com/>

Call for Applications

The Topics

Agricultural production of crops as a source of food and energy faces enormous challenges: on the one hand, yields must be increased to meet the needs of a growing global population, on the other hand, the available arable land is shrinking, the effects of climate change are already noticeable in many places, and the ecological footprint of crop production must be reduced. Digital technologies such as agrorobotics in particular have the potential to make a significant contribution to overcoming these challenges through optimized observation, analysis and intervention. In the context of the Summer School, these topics will be addressed and worked on.

Workshops:

- Introduction to Machine Learning
- Deep Learning for Applied Image Classification
- Basics of Graph-based Simultaneous Localization and Mapping (SLAM)
- Crop Phenotyping for Increased Sustainability
- A Practical Tutorial in Robot Perception and Control
- Analyzing Temporal Visual Data and Forecasting
- Economics of Robotics and Sensing Applications in Agriculture

Target Group

- Advanced Master's students (second year)
- Early doctoral students (first year)

The Event

The International Summer School will take place online, consisting of workshops, pre-recorded video talks, discussions and networking events. The event will be realized via an online conferencing tool. The summer school is free of charge for all participants and presenters and will be taught in English. All nationalities are welcome!

How to Apply

Submit your **application form** via e-mail to summerschool2021@phenorob.de

This includes:

- Your name, current academic status, name of your supervisor, field of research
- A copy of your Master's certificate or current transcript
- An abstract of 300 to 500 words outlining your motivation to participate in the summer school and how its topics connect to your research interests



ECTS

You may earn 3 ECTS for continuously participating in the summer school as part of the PhenoRob Graduate Training Program. Please make sure to check whether it is possible for you to earn credits as part of a different PhD-program.

Contact

Please contact the PhenoRob Cluster Office via summerschool2021@phenorob.de should you have any questions or concerns. We are looking forward to your applications!

The deadline for applications is June 15, 2021.

