

# Robotic Intercropping Day 2026

**Agricultural challenges and opportunities:**

**The role of robotics and intercropping**

 Thursday, 24. September 2026

 10:00-16:00

 Højbakkegård Alle 30, 2630 Taastrup

 Food and drinks will be provided



The event is free, however registration via the link below is required.  
<https://eventsignup.ku.dk/roboticintercroppingday2026>

## Keynote Lectures & Talks



10:00

**Welcome (10min)**

*Svend Christensen, Project Leader Robotic Intercropping Project*

10:15, 11:30,  
13:30

**The Robotic Intercropping Project (15 min)**

*Marieke ten Hoeve, Robotic Intercropping Project*

10:30, 14:00

**Robotics in Agriculture—Experiences from the Netherlands (45 min)**

*Frans Lips, Ministerie van Landbouw, Natuur en Voedselkwaliteit*

12:30, 15:00

**The Future of Farming without Pesticides (45 min)**

*Peter Nyegaard Nissen, Landbrug og Fødevarer*

## Live Demonstrations



10:30, 13:30



**What does the robot see? (15 min)**

Live demonstration of sensing technologies to perceive complex crop systems  
*Perception and Cognition for Autonomous Systems Group, DTU*

11:00, 15:00



**How can we sow into an established service crop field? (15 min)**

Live demonstration of a strip-till seeder  
*Jesper Svensgaard, UCPH*

11:30, 14:30



**How can robots manage service crops in the field? (15 min)**

Live demonstration of robotic field operations  
*SDU Robotics, SDU Software and UAS Center*

12:00, 14:00



**How can anyone easily manage crops with drone swarms? (15 min)**

Live demonstration of natural-language interaction for intuitive drone swarm coordination and crop monitoring - *SDU UAS Center*

## Exhibition Booths



A1

### How does intercropping enhance biodiversity and ecosystem services?

Discover how combining cash crops with (mixtures of) service crops can create more diverse, resilient, and sustainable farming systems. Explore how we study biodiversity, soil health, and ecosystem services in our field experiments. Learn about the benefits and trade-offs of multifunctional agriculture and join the conversation on balancing productivity with environmental sustainability.

A2

### How can we manage the competition in intercropping fields?

Discover how we study both above-ground and below-ground competition between cash crops and service crops. Learn how we develop models to predict these effects. Find out how we investigate different crop species, tillage, sowing methods, and cutting strategies to optimize intercropping systems. Additionally, gain insights how we study the influence of service crops on nutrient cycling and soil microbial communities.

A3

### How does an autonomous robot see the field using proximal sensing and AI?

Explore how advanced sensors and artificial intelligence enable autonomous robots to understand their surroundings. Find out how different types of sensor data can be combined to create detailed 3D models of crops and detect important differences between plants. Learn how AI helps to identify plant structures, monitor field conditions, and spot anomalies that may require attention.

A4

### How do autonomous robots take precise action in an intercropping field?

Learn how robotic technologies can help managing complex intercropping systems. Explore our latest mobile robotic platforms and learn about its current capabilities and future potential. Discover the challenges of working in real field conditions and how we design tools for precision cutting, pruning, and weeding. Learn how multiple robots can work together to support efficient and sustainable crop maintenance.

A5

### How can a virtual field improve real-world farming decisions?

Discover the concept of a digital twin and how a virtual representation of the field can support smarter agricultural management. Explore our interactive demonstration and learn how field data is transformed into insights that guide maintenance decisions. Learn how the digital twins connect information from across the project and improve decision-making for both farmers and robots.



### How do we establish our field experiments?

Learn about the machinery that we use to establish our service and cash crops and have a look at the crops that we test in our experiments.

## Find Us & Your Way Around

The experimental farm is located just north of Taastrup and is easily accessible by car and public transport.

#### By car

The farm can be reached from Highways 21 and O4 via Snubbekorsvej and Agrovej. Free parking is available on-site for all guests (please use the designated parking area).

#### By public transport

Take a regional train or S-train to Høje Taastrup Station, then continue by bus to Agrovej (Snubbekorsvej). From the bus stop, the experimental farm is approximately a 10-minute walk.

