

TESTING OF AUTOMATED VEHICLES

DRONES



Location: Flanders Make - Lommel

DESCRIPTION

We have dedicated drone-facilities to provide innovative solutions to the industry. To tap the potential of drones for industrial operations, certain challenges need to be overcome.

Innovative solutions regarding drone localisation and control - for safe and efficient utilisation in indoor industrial environments - are required. These solutions adhere to performance, safety and cost requirements. To facilitate this, we have created a suitable environment for the development of localisation and control solutions for drones to support the industry.

TECHNICAL SPECIFICATIONS

Drone operation in industrial environments implies handling multiple challenging aspects, including but not limited to:

- Sensors: suitable for use in complex and dynamic indoor environments - camera, ultrawide band, inertial sensors, ultrasound, etc.
- Precise localization: 3D positioning.
- Obstacle avoidance and path tracking in dynamic environments.
- Cost effectiveness

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At Flanders Make, we have set up the required **infrastructure to deal with the above challenges**. Currently, we are working with drone platforms such as DJI Matrice 100, Intel Aero and DJI S900.

OUR OFFER

We offer localisation and control solutions to the industry for drone operations tailored to their requirements. These include:

- Precise and robust localisation solutions using inexpensive sensor sets and advanced algorithms.
- Automation and control solutions for safe and efficient operations.
- Tailor-made solutions to industrial use cases, such as automated inventory/machine monitoring for warehouses using drones.

INTERESTED?

Contact contact_MotionS@flandersmake.be for more information.