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JOIN THE COMMUNITY

MODELS ON GITHUB

DATASETS ON ZENODO

ICAERUS.EU

GET IN TOUCH
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Funded by the European Union

ICAERUS
Drone Data Analytics Library DDAL

DRONE DATA ANALYTICS LIBRARY

An open access repository of models and algorithms catering to diverse UAV based needs

icaerus.eu

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WHAT
IS THE DDAL?

The Drone Data Analytics Library: an Open Access repository of drone models and algorithms

WHY
DO WE NEED DDAL?

Analytical models of UAV are often published behind closed doors, or completely developed in-house. This limits their adoption, evaluation and potential for further optimization.

WHAT
IS THE FOCUS OF THE DDAL?

There is a broad variety of models that can be found in the UAV domain. Which is why ICAERUS focuses on a wide array of analytics-implementation of UAV applications, including:

- Photogrammetry
- Statistical models
- UAV spraying simulations
- Machine learning/deep learning models
- Vegetation indice calculations
- Fleet management algorithms
- Datasets

WHERE
DOES OUR DATA COME FROM?

The Library is being populated by the 5 ICAERUS use cases which cover significant drone application across Europe and include:

- Crop monitoring
- Drone Spraying
- Livestock Monitoring
- Forestry and Biodiversity Monitoring
- Rural Logistics

More is on the way from our PUSH Open Call which will include a total of 8 sub-projects with innovative drone based-ideas for addressing agricultural and rural challenges.

We Want You!

USE THE LIBRARY

- Explore the library and the various models and implementations
- Re-use datasets
- Adapt code implementations for different applications

CONTRIBUTE TO THE LIBRARY

- Share your data, models and algorithms
- Contribute to the growing knowledge pool

The Icaerus Platform

The DDAL is connected to the ICAERUS platform, providing a user-friendly interface for accessing models and datasets and algorithm analytics. It is also the information hub for all of the project results including the ICAERUS academy, drone market analysis, socio-economic and Environmental Impact Assessment Results, inclusiveness business and governance models and more information on the use cases and open calls.