

COORDINATOR



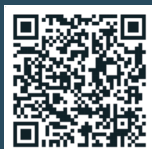
PARTNERS



noumena



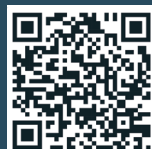
JOIN THE
COMMUNITY



MODELS
ON GITHUB



DATASETS
ON ZENODO



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info@icaerus.eu



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DRONE DATA ANALYTICS LIBRARY

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

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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.