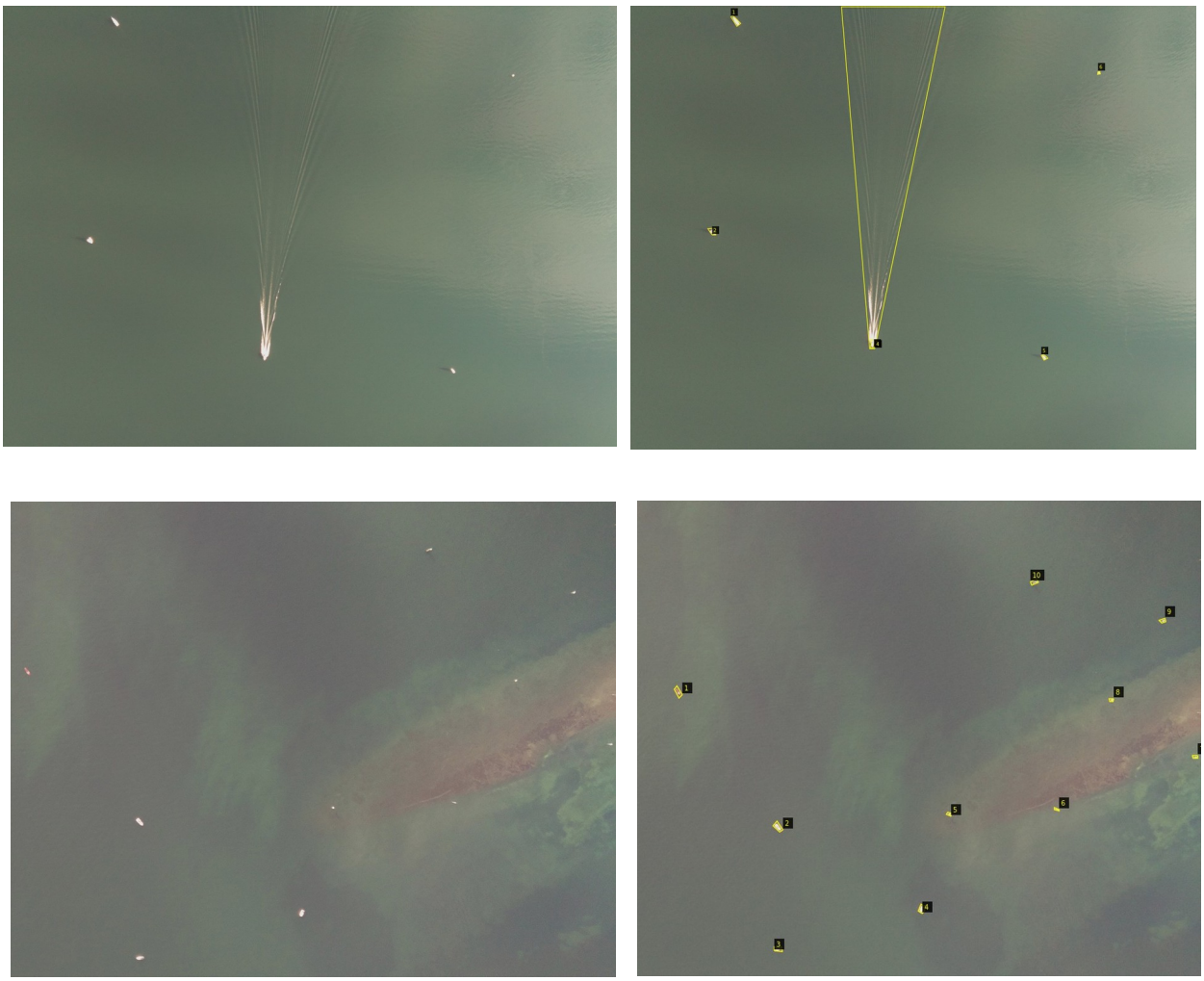
Pipistrel Bodensee

Example Images



Details

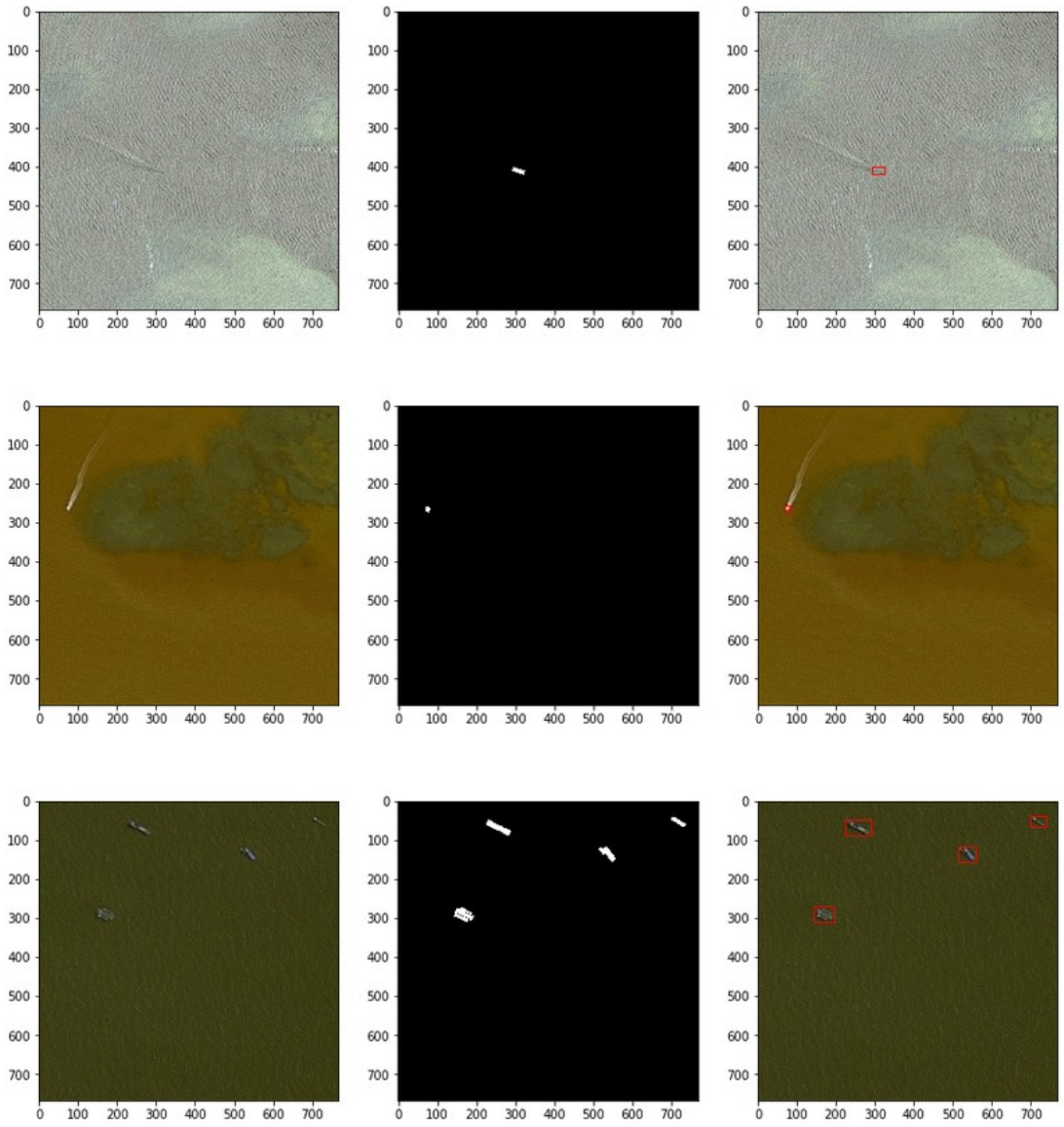
This dataset got collected by a plane flying over the Bodensee in south germany. It consist out of ~1800 images with annotations provided as polygons. There are ~1300 boats annotated in the images. As the images are extracts from a video, the annotations often show the same boat in the same rotation and scale in different images. If the boat produces a bowwake, it is additionally annotated. For each boat and wake a unique tracking-ID is provided. Undefined objects in the water (bags, waste) are also annotated.
A existing non machine learning based proposal detector provides additional annotations for ROIs in the water which do not belong to the boat class.

Dataspecs

Imagecount	~1800
Boat class annotiaton	~1300
Classes	Boat, Wake, UndefinedObject, Nature
Anotationformat	Polygons
URL	Raw images: https://cloud.hs-augsburg.de/index.php/s/mGHrPeW9WpKCYp5 Labels for tasks: https://cloud.hs-augsburg.de/index.php/s/YT8jEMieYM4EL5b

Airbus Ship Detection Challenge - Kaggle

Example Images



Details

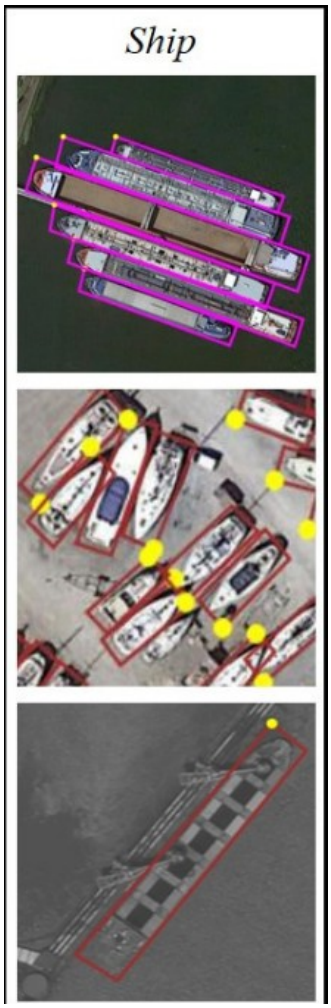
In this dataset from the Airbus Ship Detection Challenge on Kaggle there are 131030 ships annotated in satellite images. The annotations are provided as pixelmasks.
Please join the competition on kaggle to get the data.

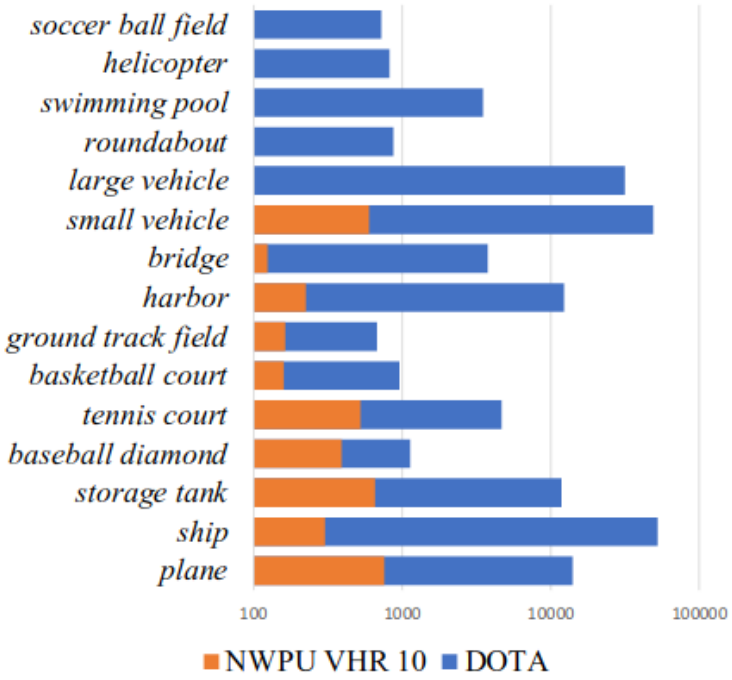
Dataspecs

Imagecount	192000
Boat class annotiatons	131030
Classes	Boat
Anotationformat	Pixelmasks
URL	https://www.kaggle.com/c/airbus-ship-detection/

DOTA: A Large-scale Dataset for Object Detection in Aerial Images

Example Images





Details

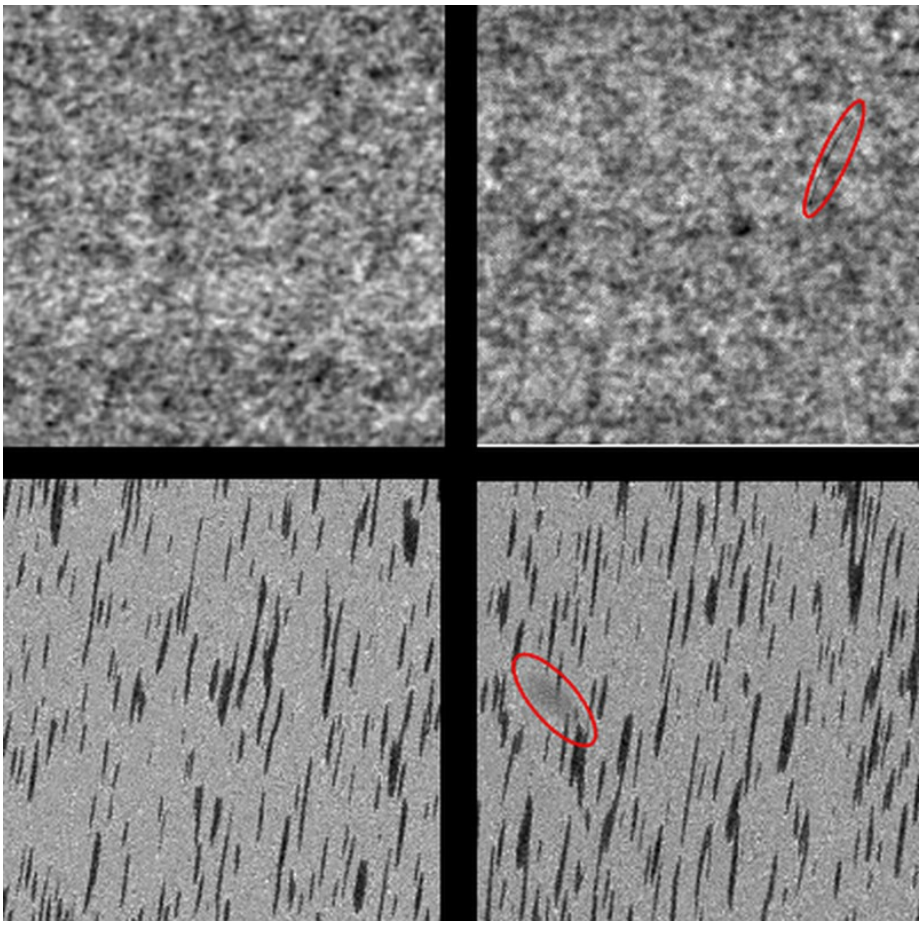
“To advance object detection re-search in Earth Vision, also known as Earth Observationand Remote Sensing, we introduce a large-scale Dataset forObject deTection in Aerial images (DOTA). To this end, we collect 2806 aerial images from different sensors and plat-forms. Each image is of the size about 4000×4000 pixels and contains objects exhibiting a wide variety of scales,orientations, and shapes. These DOTA images are then an-notated by experts in aerial image interpretation using15common object categories. The fully annotated DOTA im-ages contains 188,282instances”

Dataspecs

Imagecount	2806
Boat class annotiatons	~50000
Classes	Boat, ...
Anotationformat	quadrilateral bounding boxes (4points)
URL	https://captain-whu.github.io/DOTA/

Industrial Optical Inspection – DAGM

Example Images



Details

“The provided data is artificially generated, but similar to real world problems. It consists of multiple data sets, each consisting of 1000 images showing the background texture without defects, and of 150 images with one labeled defect each on the background texture. The images in a single data set are very similar, but each data set is generated by a different texture model and defect model. Not all deviations from the texture are necessarily defects. The algorithm will need to use the weak labels provided during the training phase to learn the properties that characterize a defect.“

This dataset might be useful for pretraining of a object detector.

Dataspecs

Imagecount	6000
Boat class annotiatons	-
Classes	Just anomalies
Anotationformat	Ellipsis
URL	https://resources.mpi-inf.mpg.de/conference/dagm/2007/prizes.html