

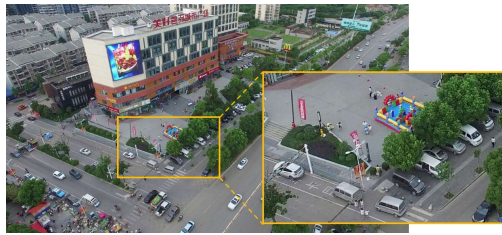
What is
UAVid?



The UAVid dataset is an UAV video dataset for semantic segmentation task focusing on urban scenes. It has several features:

Semantic segmentation
High resolution
UAV videos
Object categories
Street scene context

High resolution quality



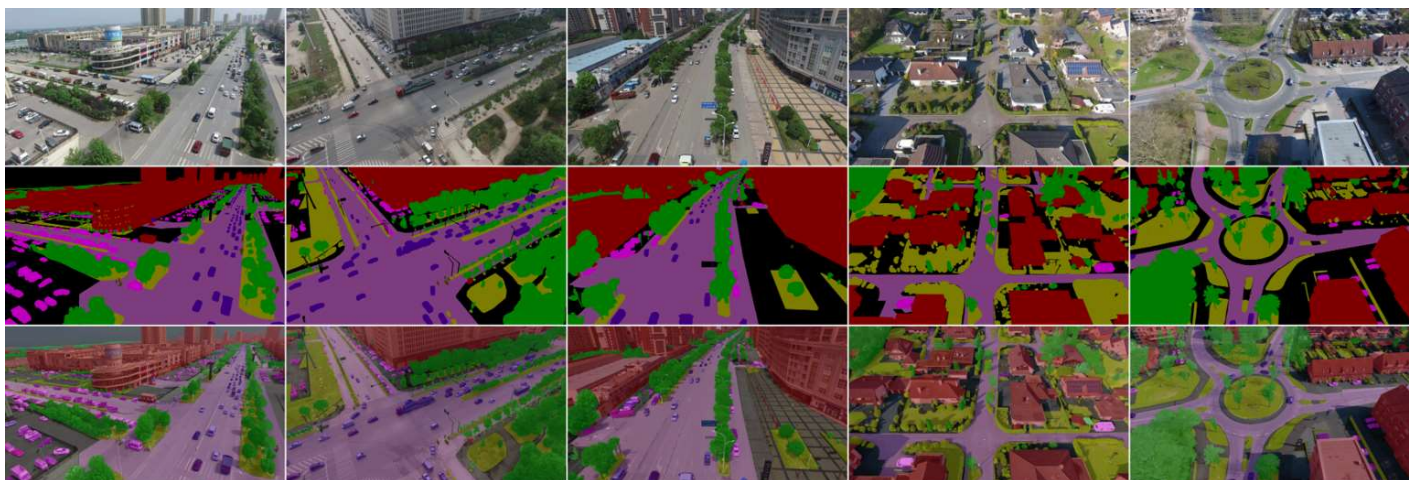
The images are captured in very high resolution with detailed scenes.

What are the categories?



There are 8 categories in total:

- **Building**
- **Road**
- **Static car**
- **Tree**
- **Low vegetation**
- **Human**
- **Moving car**
- **Background clutter**



News

- **UAVid 2020 test set ground truth** is publicly available! Download available on EOStore (password: uavid2023) (<https://eostore.itc.utwente.nl:5001/sharing/FPkN1deAn>)
UAVid-depth dataset is online! Task: Self-supervised monocular depth estimation from UAV videos. Dataset description and download available on DANS (<https://easy.dans.knaw.nl/ui/datasets/id/easy-dataset:210775>)

UAVid 2020 version is online! Dataset download is available now!

UAVid 2020 version has 42 sequences in total (20 train, 7 valid and 15 test). Besides the original 30 sequences (UAVid10 version), another 12 sequences have been collected to further strengthen the dataset.

- **Evaluation server is online.** Both of the UAVid10 and the UAVid2020 can be evaluated on the Codalab. Experiments on UAVid2020 are recommended. Go to benchmark page for more details.

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Citation

Please cite our paper if you find our UAVid dataset useful.

Bibtex references are as follows,

```
@article{LYU2020108,  
  author = "Ye Lyu and George Vosselman and Gui-Song Xia and Alper Yilmaz and Michael Ying Yang",  
  title = "UAVid: A semantic segmentation dataset for UAV imagery",  
  journal = "ISPRS Journal of Photogrammetry and Remote Sensing",  
  volume = "165",  
  pages = "108 - 119",  
  year = "2020",  
  issn = "0924-2716",  
  doi = "https://doi.org/10.1016/j.isprsjprs.2020.05.009",  
  url = "http://www.sciencedirect.com/science/article/pii/S0924271620301295",  
}
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When using the UAVid-depth dataset in your research, please cite:

```
@article{uaviddepth21,  
  Author = {Logambal Madhuanand and Francesco Nex and Michael Ying Yang},  
  Title = {Self-supervised monocular depth estimation from oblique UAV videos},  
  journal = {ISPRS Journal of Photogrammetry and Remote Sensing},  
  year = {2021},  
  volume = {176},  
  pages = {1-14},  
}
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