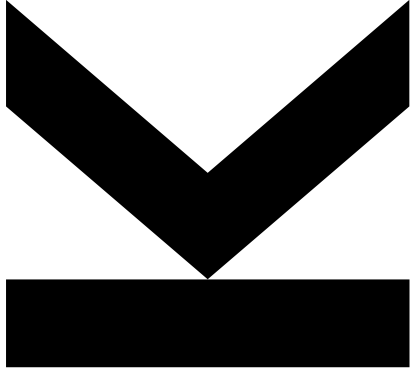


CV Lab Project, Lab 2: Ideas



Group A0:

Pablo Díez Arrizabalaga, Christian Willdoner, René H. Reich, and Daniel Schatzl

Unsupervised Pixel-wise Hyperspectral Anomaly Detection via Autoencoding Adversarial

Networks, Sertac Arisoy et al.

Ensemble and Random Collaborative Representation-Based Anomaly Detector for Hyperspectral Imagery, Rong Wang et al.

- Many papers on HAD (Hyperspectral Anomaly Detection)

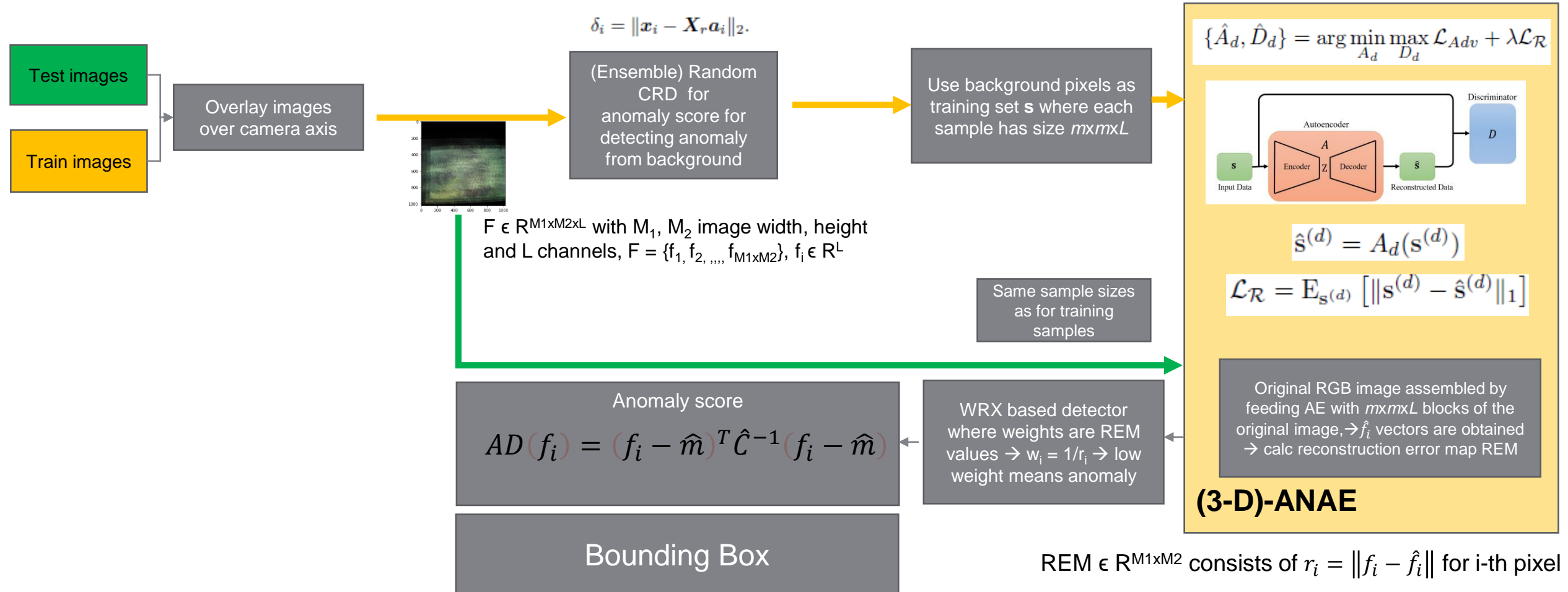


Image merging/overlaying

Why?

- Expecting better results [1]

How?

- Using homography data provided
- Center image is the base, transformed outer images are laid on top of it
- $\alpha = 0.75$

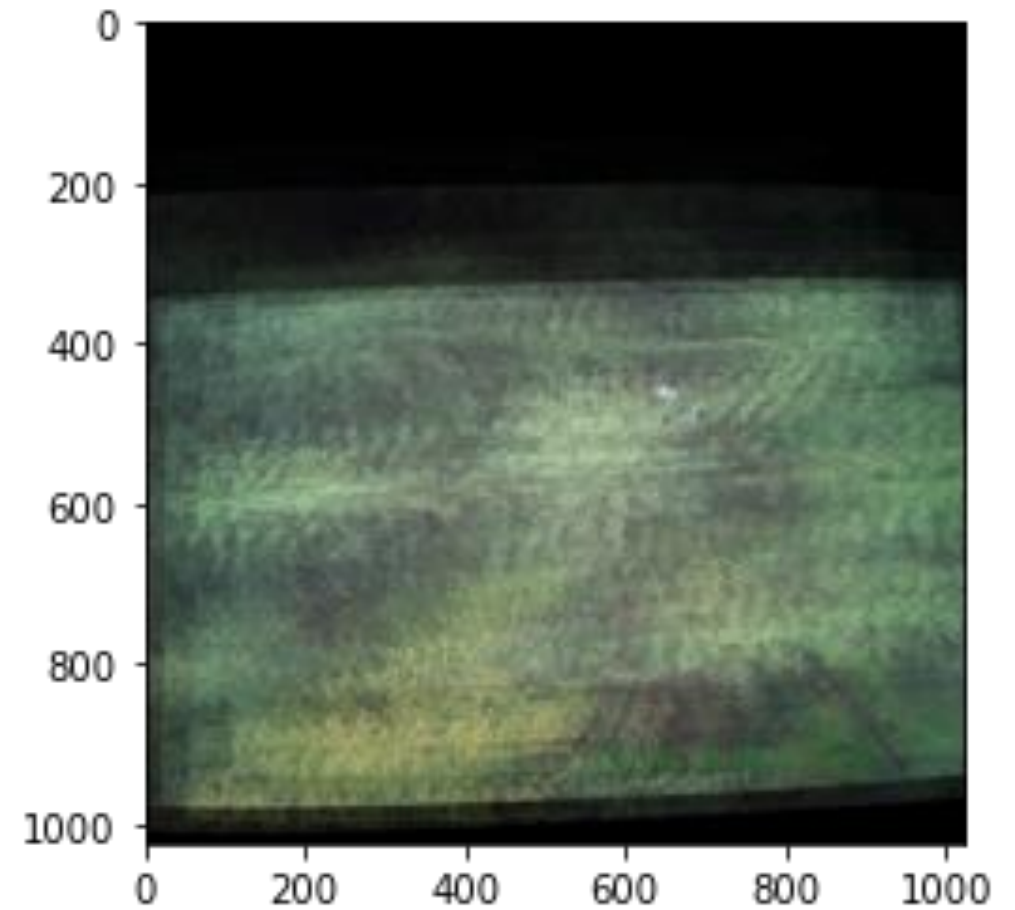
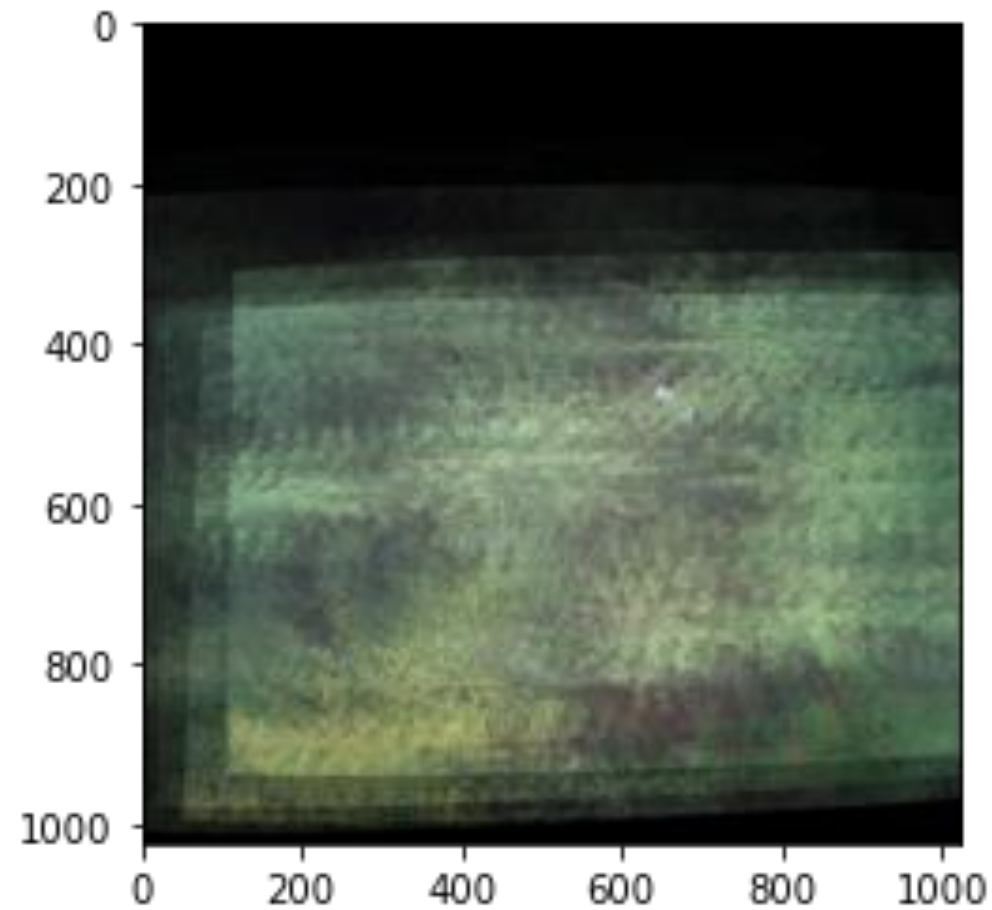
[1] Search and rescue with airborne optical sectioning [Schedl, D.; Kurmi, I.; Bimber, O.]

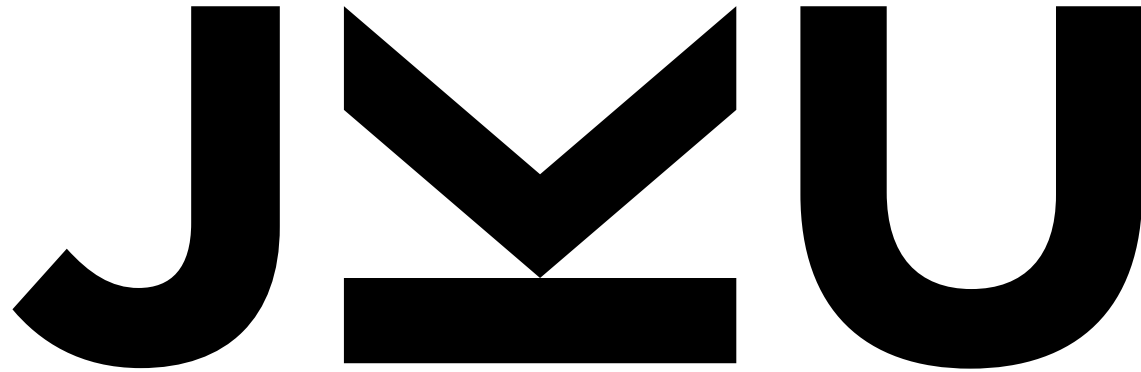
Important Python Functions



```
cv2.warpPerspective(image, homography, shape)  
cv2.addWeighted(img1, alpha, img2, 1 - alpha, 0.0)
```

Results





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