

Dronezz

description

Alex Faché, Mason Heim, Josh Moore, Kyle Turner

Georgia Institute of Technology - School of Electrical and Computer Engineering

ECE 4011 Spring 2020, ECE 4873 Fall 2020

Data

The images for this project were collected using a commercial Parrot Anafi quadcopter, utilizing the onboard color camera and Pix4Dcapture mission planning. Each image was taken at an altitude of 40m resulting in a ground resolution of 1.34 cm/pixel. The area in question spans 79x82m resulting in 54 overlapping images that were combined to form a single image using Pix4Dmapper

Histogram Normalized

Histogram normalization was applied to best remove the variation in brightness due to the Sun and clouds. Mission 2 was used as the reference mission for each normalization.



Bounding Boxes

text

Anomaly Detection

text

Heatmaps

text

Results

text