

The two objectives are:

1. Isolation of 'objects' in the image
2. Extraction of features of isolated objects

1. Isolation of 'objects'

The workflow is as follows:

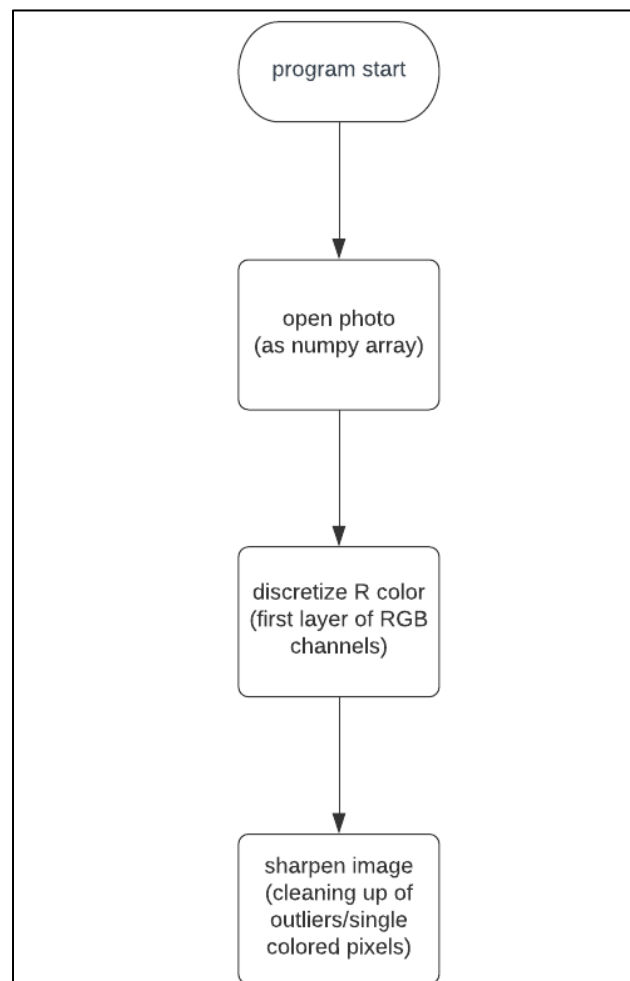


Figure1. Workflow of 'isolation of objects' process

The effects of each of the stages of the workflow above are shown below with two different images (Image1 and Image2)

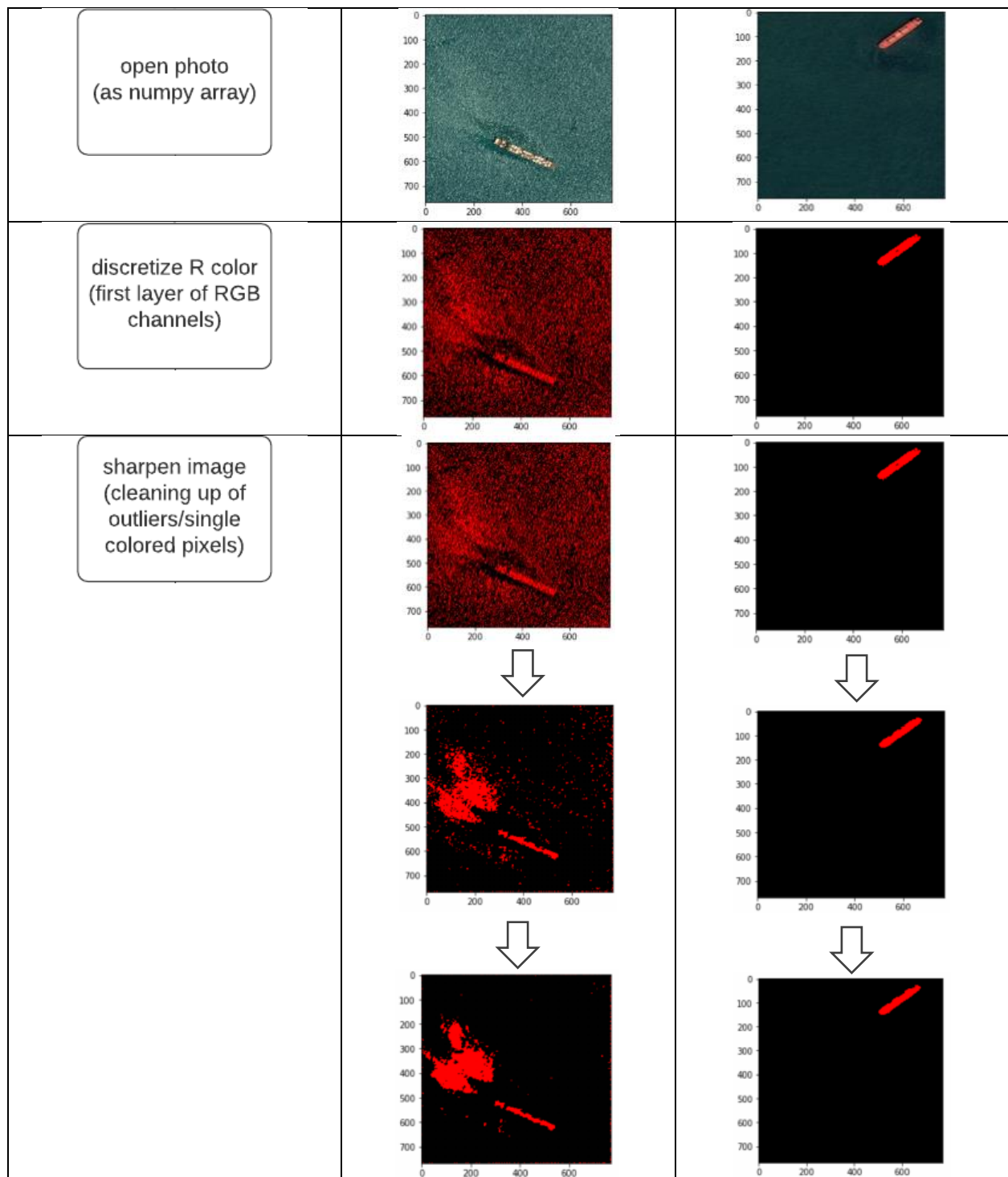


Figure 2. Process of isolation of objects in Image1 and Image2.

The objective of this first part is to isolate objects in the images. The results are shown in the figures below.

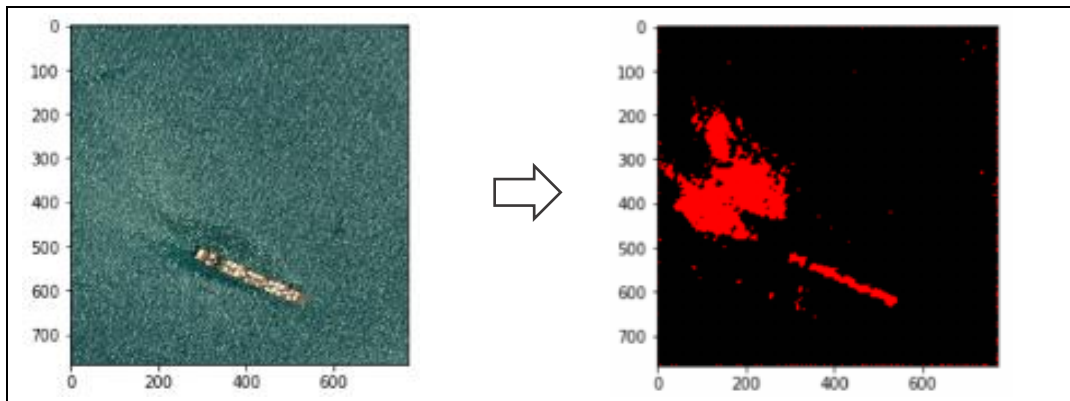


Figure 3. Isolation of objects in Image1

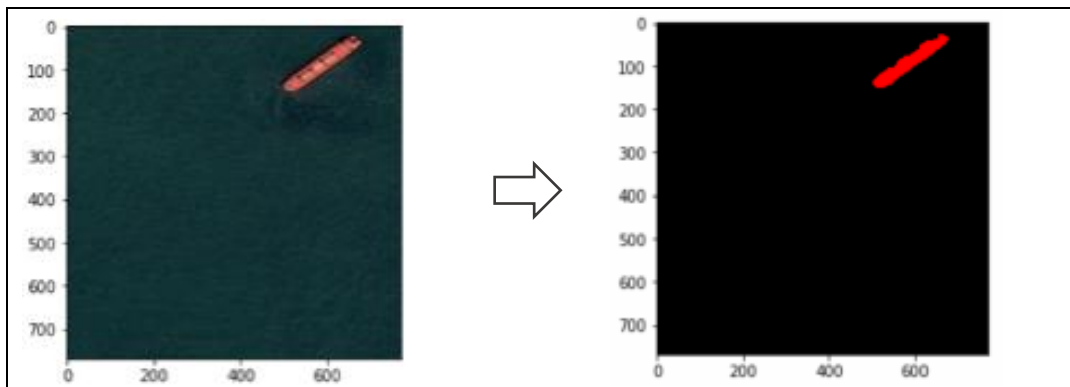


Figure 4. Isolation of objects in Image2

2. Extraction of features of isolated objects

The objective of this stage is extracting height (h) and width (w) of each of the objects, along with an orientation parameter (α).

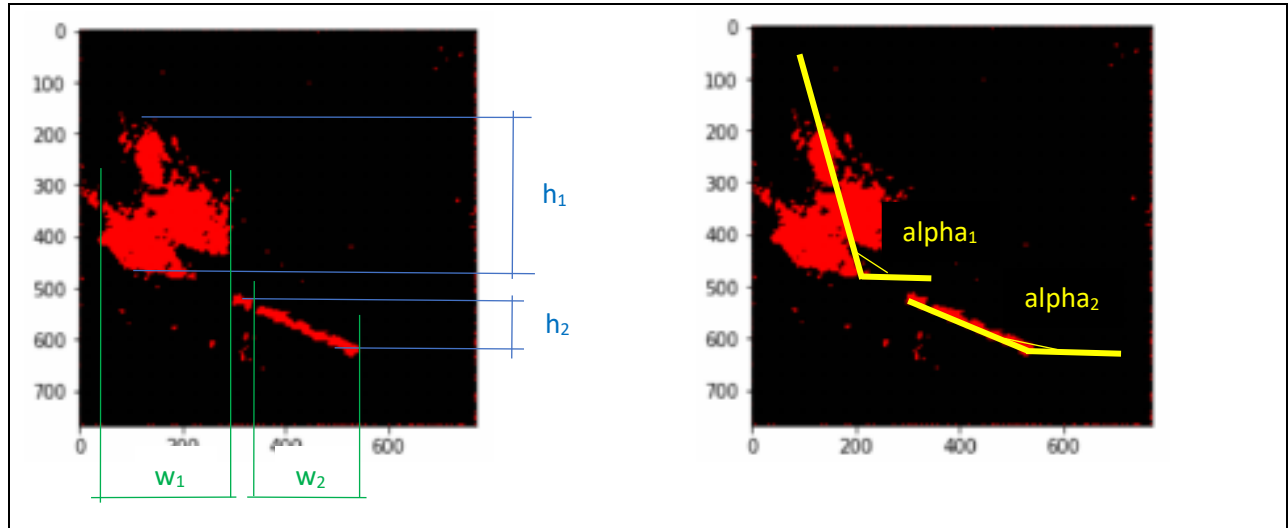


Figure 5. Features of objects in Image1

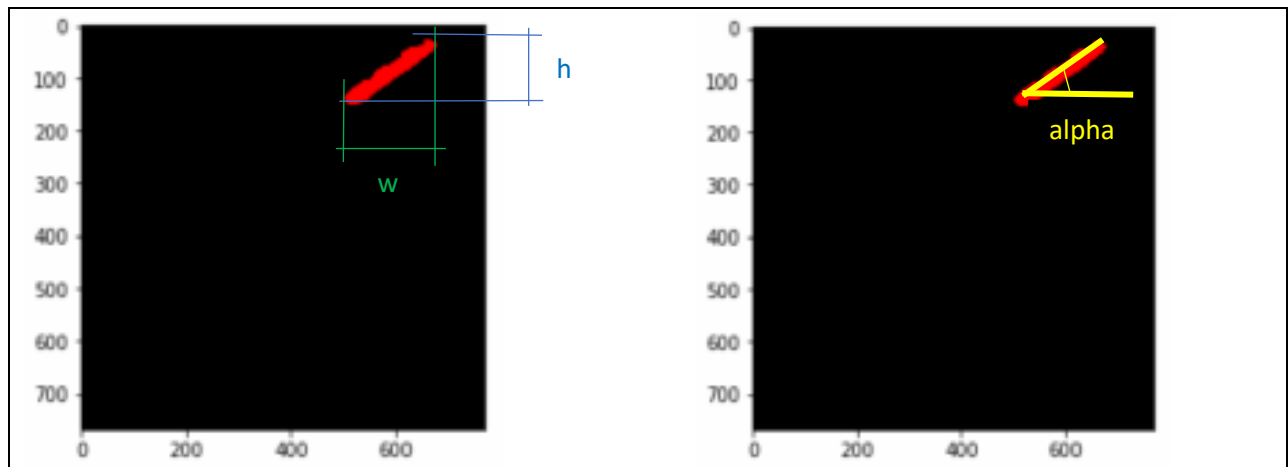


Figure 6. Features of objects in Image2