

Project Proposal

Project Title: Flower Recognition

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General Idea:

Given an image that contains a flower, the program identify the flower and its species in the image.

Scope of Work:

1. Download flower species dataset from university of oxford Segmentations for Flower Image Datasets and Others. link: <http://www.robots.ox.ac.uk/~vgg/data/bicos/>
2. Identify flower in an image
3. Train flower dataset that can predict which species it belongs to
4. Visualize the results: draw a bounding box around the detected flower and label the flower species

Proportion of work:

In this project, the work will be divided into two main parts: identify flower in an image (segmentation) and identify flower species (recognition).

Difficulties:

- a) In order to identify the flower from image, the image needs to be segmented which remove the background of the image and only contains flower from the image.
- b) In order to recognize the flower, the program needs to first train images from the dataset and then match the flower extracted to correct species.