

Computer Vision Project

1 Overview

This project will involve you **designing**, **building**, **testing** and **critiquing** a system for performing **face alignment**, aka. locating **facial landmarks** in images. There is also a secondary extension task detailed below. Please demonstrate the following:

- Write and document a **computer program** to extract useful information from **image data**.
- Propose designs for simple **computer vision systems**.
- Determine the applicability of a variety of **computer vision techniques** to **practical problems**.
- Describe and recognise the effects of a variety of **image processing operations**.
- You will design and implement a system for modifying the colour of the **lips** and/or the **eyes** in the image. This should be achieved through a **simple algorithmic procedure**, either using the **estimated landmarks** to identify the correct region or through another **segmentation strategy**.