

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.