PROPOSAL

PROJECT:- Real-time Social Distancing Detector

PROJECT DESCRIPTION

Social-distancing is an important way to slow down the spread of infectious diseases. People are asked to limit their interactions with each other, reducing the chances of the disease being spread with physical or close contact.

DETAIL OF MY PROPOSAL:-

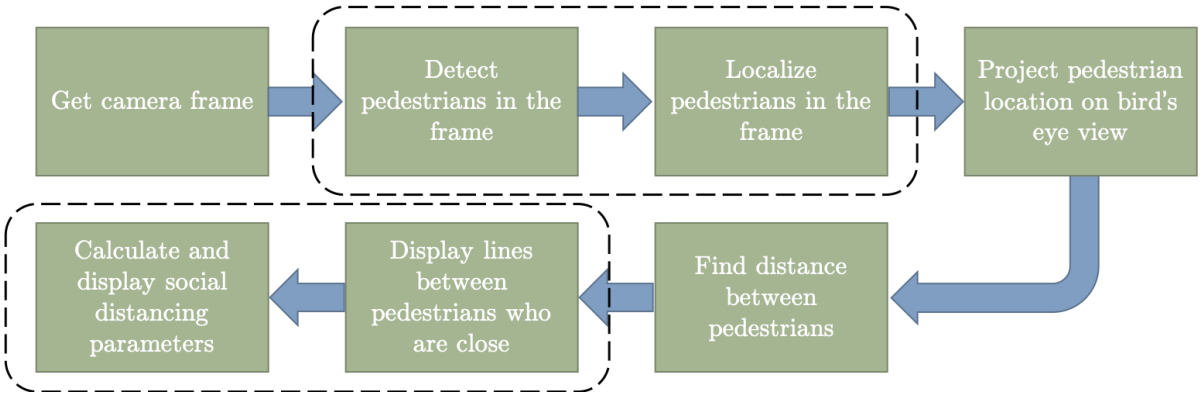
Social-Distancing is an open-source project for automatically estimating interpersonal distance from uncalibrated RGB CAMERA. The software can be freely used for any non-commercial applications to assess compliance with safe distances. Given a frame captured from a scene, the algorithm first detects visible people in the scene using an off-the-shelf body pose detector and estimates the height of the people through measuring the distance from their body joints. In the second step, the algorithm estimatesan area of one meter around all the detected people. This distance is roughly estimated proportional to a typical human body heightof 160 cm and can be used to draw a circle centered in human position in the scene.

Object Detection and Tracking

Social Distancing Detection Tool using Deep Learning So, some confused object detection and image classification. Objects are everywhere, to detect the object and image classification are classified the images and very popular tasks in computer vision.

The fundamental difference between these two tasks is that image classification identifies an object in an image whereas object detection identifies the object as well as its location in an image.

BLOCK DIAGRAM OF ALGORITHIM



requirements:-

- **OpenCV**

- **PyTurboJPEG**
- **Shapely**: `pip3 install Shapely`
- **Itertools**: `pip3 install itertools`
- **Numpy**: `pip3 install numpy`

TIME LINE:- 6th -9th December familiarize with code and organisation.

10th to 20th December execute the above stage and code.

Then proceed to phase 1 and 2 .