

Title:

Haar Cascades in OpenCV

Problem Statement:

How Does Haar Cascades Detect Human Faces in Images?

Abstract:

Face detection in humans has been a challenging issue in the areas of image processing. The goal of this project is to become familiar with Open CV and observe the trend of false positives within a face detection algorithm called Haar Cascades.

Methods:

While using the Jupyter Notebook platform and OpenCV library, I implemented the Haar Cascade algorithm on the diverse Flickr faces dataset and noted the many false positives. Testing the algorithm out on a few images in Open CV, I noticed that there were a lot of false positives, which could be due to a lot of other things, considering that the algorithm is mostly used for frontal images.