DD2427: Lab Project

Group: Student 1, Student 2

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Introduction

Summary of the basic lab project:

- Implementation of Viola & Jones face detector
- Test my face detector on images

Our extensions to the basic face detector

How we improved the default implementation:

- came up with a different way of computing the threshold of the weak detector
- had a clever way of speeding up the training/detection time..
- computed a cascaded classifier and your findings.
- .....

Slides describing details of what you did

Changed Visual Features Extracted

Mention

- the type of features
- how these features can be computed quickly and efficiently

Perhaps changed the weak classifiers

Made changes to the Boosting algorithms

Perhaps Made Changes to speed up Detecting Faces

Results of Learned strong classifier Vs Your new strong classifier

Details about training

- Number of training images (positive and negative)
- Number of features used

Maybe Picture of learned classifier. Picture of 1st n features chosen. Picture of ROC curve.

Results: applied to pictures

Details about

- how many scales searched over
- setting of the threshold

Pictures of detections.

Our final ideas/thoughts

Given the time:

- Which improvement would you like to implement
- Which issue would you like to investigate