Image Processing and Computer Vision The Dartboard Challenge

Eva Woodbridge and Angela Luo - ew— wl17443

November 21, 2019

Abstract

content...

- 1 Viola Jones Object Detector
- 1.1 Ground Truth and Visualisation
- 1.2 IOU, TPE, F1-Score
- 2 Building and Testing a Detector
- 2.1 Training Performance
- 2.2 Testing Performance
- 3 Integration with Shape Detectors
- 3.1 Hough Details
- 3.2 Evaluation
- 3.3 Detection and Pipeline
- 4 Improving Our Detector
- 4.1 Idea
- 4.2 Visualize
- 4.3 Evaluate



(e) dart15.jpg

Figure 1: Five result images with bounding boxes of the ground truth (in red) and actually detected instances (in green) drawn around frontal faces