

OBJECT DETECTION ON ANDROID SMARTPHONES

INTRODUCTION

BMW@NTU is an innovative research cooperation. The new BMW electric vehicles i3 and i8 are used to collect and analyze vehicle and traffic related data. The vehicles are equipped with a smartphone to acquire images of the area in front of the vehicle. These images will be used to detect objects, like pedestrians in the driveway of the vehicle. The objective of this project is to build an application that can process images and detect and classify pedestrians in real driving situations.

METHODOLOGY

The tasks include:

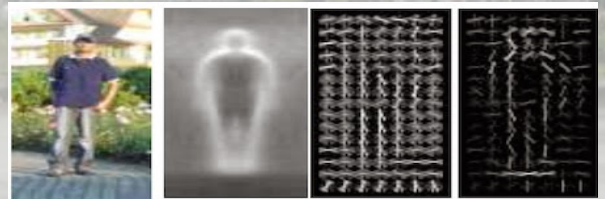


Figure : HOG detectors cue mainly on silhouette contours (especially the head, shoulders and feet).

FUTURE WORK

The software can be used to support the driver to enhance the traffic safety in Singapore and elaborate other security software aspects.

