



Dashcam research opportunities for driving behaviour and traffic analysis

Problem description

An increased uptake of dashcams in vehicles, partially due to insurance requirements, has increased the potential amount of dynamic vehicle and traffic information that can potentially be collected. Dashcam and similar Mobileye images have been extensively used to analyse various vehicle, driving, and traffic phenomena in the past. However there may be more expansive ways that these images can be transformed into data and used to research other transportation and mobility questions. Another consideration are the requirements in regard to privacy and the ethics of dashcam information processing.

Objectives & Assignment

The objective of this project is to investigate potential (new) areas of research that such images can lead to and can contribute to, consider what type of image processing is required and what already exists or needs to be further developed, and finally how ethical concerns in regard to privacy can be dealt with. It is also recommended that the project should include an initial analysis on a set of images to demonstrate the potential. Furthermore, the project may also lead to a set of new research questions that can be considered with this data, and a framework on how to process and extract information from such data.

This Master thesis can include an internship at an external organisation or connected to a Delft AI lab.

Research group

DiTTlab, Transport & Planning Department

Thesis supervisor: TBD

Daily supervisor: dr.ir. Simeon Calvert

External support

Delft AI-labs

TBD

Information

Simeon Calvert - s.c.calvert@tudelft.nl

