

Computer vision project on cars with video

Modern cars are/will be equipped with cameras, which open up for a range of new research topics. We have access to data from long-haul trucks, where the road ahead is recorded continuously, as well as other views (including the drivers themselves). We will want to investigate what can be done with this huge amount of video data, especially towards the goals of making cars more intelligent, and the control of the car more accurate for a safer driving experience.

From the frontally viewed camera feed, we ask ourselves whether the stability of the car can be estimated (is it wobbling, starting to spin?). Such questions could be connected to vehicle dynamics, perhaps be the basis of future control systems aiding in steering. This project has the possibility to expand, depending on the students input. There is much more data available than just video, opening up for the possibility of data fusion.

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