Description of the VS13 dataset (video+annotations)

General about VS13

The VS13 dataset contains video recordings of 13 vehicles (Citroen C4 Picasso, Kia Sportage, Mazda 3 Skyactive, Mercedes AMG 550, Mercedes GLA 200D, Nissan Qashqai, Opel Insignia, Peugeot 208, Peugeot 3008, Peugeot 307, Renault Captur, Renault Scenic and VW Passat B7) passing by the camera at a known constant speed. Specification of vehicles (engine type, power, transmission type and production year) is given in Table 1 in the paper. The dataset comprises 400 video recordings (MP4 format, full HD resolution, 30 fps, 10-second length), each containing a single drive of a single vehicle. The speed of vehicles ranges from 30 to 105 km/h (exact values given in Table 1 in the paper). The speed is maintained stable by the on-board cruise control, all vehicles were equipped with.

Annotation text files contain the speed of a vehicle and its pass-by-camera instant. Relative time from the beginning of the file, given in seconds with a two-decimal precision, was measured. Precise annotations were obtained by visual screening, i.e., by identifying a video frame when a vehicle starts to exit the camera view, which approximately corresponds to the closest point of approach.

Folder video+annotations

Folder **video+annotations** contains 13 zip archives. Each archive corresponds to one vehicle, i.e., it contains video files and textual annotations for that vehicle.

Naming convention for dataset files includes the vehicle name and the speed. For example, Peugeot307_79.mp4 and Peugeot307_79.txt represent the names of video and annotation files, respectively, of Peugeot 307 driven at 79 km/h.

Total size of 13 archives within this folder is approximately **13.64 GB**.