CLAIMS

1. A method for gathering image training data for training a machine learning model for a certain application including a vehicle control application or a map data generation application, comprising:
mounting a camera onto a vehicle or a driver of the vehicle;
determining a location of the vehicle;
determining a relevancy of the determined location depending on the certain application;
triggering recording of an image using data from a data source, wherein the data source includes a positioning device for measuring a distance, a gyroscope for detecting if a viewport changes, and a processing device for performing scene recognition, and the recording of the image is triggered by the measured distance, the change of the viewport, and the scene recognition; and
recording the image, by recording a video with the camera if the determined relevancy is above a predetermined threshold and recording single images if the determined relevancy is below the predetermined threshold.

2. The method of claim 1, wherein the relevancy is determined based on map data specifying whether location belongs to an urban area or a rural area.

3. The method of claim 2, wherein the relevancy is determined to be higher when the vehicle is located in the urban area and is determined to be lower when the vehicle is located in the rural area.

4. The method of claim 3, wherein the predetermined threshold is set such that the relevancy of the urban area is above the predetermined threshold and the relevancy of the rural area is below the predetermined threshold.

5. The method of any one of claims 1 to 4, wherein the relevancy of the location is determined to be either high or low, and the method comprises recording the video

with the camera if the determined relevancy is high and recording the single images if the determined relevancy is low.

6. The method of any one of claims 1 to 5, wherein the camera comprises a video mode and a single image mode, and the method comprises switching the camera to the video mode if the determined relevancy is above the predetermined threshold, and switching the camera to the single image mode if the determined relevancy is below the predetermined threshold.

7. The method of any one of claims 1 to 6, comprising setting a frame rate of the recording of the video or a rate of recording the single images depending on the determined relevancy.

8. The method of any one of claims 1 to 7, comprising determining the relevancy of the determined location depending on population density of the location, such that the determined relevancy is higher as a population is higher at the location.

9. The method of any one of claims 1 to 8, comprising determining the relevancy of the determined location depending on traffic at the location, such that the determined relevancy is higher as the traffic is higher at the location.

10. The method of any one of claims 1 to 9, comprising storing and uploading the recorded video or single images.

11. The method of any one of claims 1 to 9, comprising storing the recorded video or single images, determining a value of the recorded video or single images for training the machine learning model and uploading the recorded video or single images if the value is above a predetermined threshold.

12. The method of any one of claims 1 to 11, comprising storing the recorded video or single images and uploading the recorded video or single images to a remote

component in response to a reception of a request for training data from the remote component.

13. The method of any one of claims 10 to 12, comprising labelling the recorded video or single images with a specification of the determined location before uploading.

14. The method of any one of claims 1 to 13, comprising determining the relevancy of the determined location by consulting relevancy data which indicates relevant areas.

15. An image recording arrangement of a vehicle for training a machine learning model for a certain application including a vehicle control application or a map data generation application, comprising:
a camera;
a positioning device configured to determine a location of the vehicle; and
a camera controller configured to trigger recording of an image using data from a data source, wherein the data source includes a positioning device for measuring a distance, a gyroscope for detecting if a viewport changes, and a processing device for performing scene recognition, and the recording of the image is triggered by the measured distance, the change of the viewport, and the scene recognition,
wherein the camera controller is further configured to determine a relevancy of the determined location depending on the certain application, and record the image by controlling the camera to record a video if the determined relevancy is above a predetermined threshold and to record single images if the determined relevancy is below the predetermined threshold.

16. A computer program element comprising program instructions, which, when executed by one or more processors, cause the one or more processors to perform the method of any one of claims 1 to 14.

17. A computer-readable medium comprising program instructions, which, when executed by one or more processors, cause the one or more processors to perform the method of any one of claims 1 to 14.