
Drowsy Driver Detection System Using Matlab Code |BEST|

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for the face detection we need a set of features which can be used by the following procedure. our feature extractor will extract a set of features from the image. these features will be used by the classifier for classification. in order to extract the features on the input image we use the haar warping feature detector. the details of the feature detector is given below. facial features are extracted using wavelet transform, which can generate a large number of features. however, all the features have some common features like facial landmarks or corners. these facial landmark is detected using the histogram of oriented gradients (hog) features. hog is a type of histogram which is calculated by a two dimensional differential operator. hog operates by counting the occurrences of gradient orientations in an image and comparing them. hence, all that is required is to implement an active learning process to produce a trained model for classification. dense tracking is implemented for the face. the dense tracker aims at tracking the face in real time. the dense tracker adopts a coarse-to-fine tracking mechanism. in coarse tracking, the face is accurately tracked using haar transform. in fine tracking, the face is tracked using super-pixel based

tracking algorithm. the features are extracted from this high level face tracked region. one is that these features are robust against low lighting or low resolution. these features can also be used in conjunction with other features that can be extracted from the face for classification and multi-class classification.

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the drivers' gaze point was defined as the driver's eye gaze point, and the head pose was estimated by six points on the driver's face. in the detection process, the measurement accuracy and stability are two important factors. for all the three tests, the drivers and drivers are not included in the system and the system is trained with data recorded from one of the three tests. the training data is not included in the training data (i.e. only data recorded from the test of the test is used in training). tasks 1 and 2 are based on moving/fixing of eyes and lips. firstly the camera was used to measure the coordinates of corners of eyes and then differentiate whether the driver is drowsy or distracted. differentiating facial landmarks of driver is not a new concept. in some literature, facial tracking is used

to detect drivers drowsiness and driver distraction. based on this concept, we came up with tasks 1 and 2. on the other hand, for task 3, computer vision based approach is not good enough. computer vision based approach needs to have good image resolution for that purpose. but since, the resolution of cameras used is low, we have used a sensors based approach. for this task, we have used a sensor which can detect the acceleration along with direction. this sensor is based on the piezoelectric effect. using this sensor, we can detect and differentiate a moving event in the surrounding area like obstacles in the surrounding road. by using this sensor, we can detect where and when the driver's gaze has been redirected to its peripheral objects. the driver will be wearing the glove + necklace, which is similar to the design worn by driver in the china mingshou experiment. this glove + necklace is connected to a hardware device. this device is a combination of the sensor and hardware which detects the face landmarks and rotation of the eyes and lips of the driver in real-time. an application software runs on a laptop and constantly monitors and records the head movement of the driver. when the driver

is distracted and looks away from the road, as the driver looks at the objects and people in the surrounding, then the driver's eyes and lips are moved. this will be monitored by a body sensor. if the eyes and lips are moved continuously for a certain period of time then the software will trigger a warning to the driver. the driver will also be given the information about how much time is required to get fully recovered and if that time is reached, then the warning will disappear and the driver will have to sit on a return seat for a certain period of time. 5ec8ef588b

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