attention\_mask\_img

this folder contains the heat map and the heat map mask generated from pixel level explanation by the pixel based end to end driving models

DataLoading

this folder contains different kinds of data set packaging and making batches

gradual\_explanation\_img(object\_simulation)

this folder contains the simulation data, AKA gradually shown image, which will be used for the objective persuasibility evaluation. this data generated from the object level explanation by the pixel based and to end driving models

Model

this folder contains the parameter and architecture of deep learning models(AKA pixel based and the to end the driving models)

Object\_based\_explanation(heatmap)

this folder contains the heat map generated from the object level explanation by the pixel based and to end driving models, which will be used for the subjective persuasibility evaluation.

trained\_model\_for\_explanation

this folder contains some middle data, the middle data is generated to make the object level explanation, which are the prediction result for the occluded image and the original image,, this folder contains 2 subfolders, one for occluded images and one for original images.

1.gray\_out\_img\_dict\_for\_loss\_and\_info，

this folder contains the pixel based end to end driving models prediction results for occluded images. The occluded images are the original images that we occluded an object. For example, if one image has 20 objects, then we can make 20 occluded images. For each occluded image there are only one object is occluded, then we can have the driving model prediction result for this occluded image. the difference between 2 prediction results, which is, the prediction result of this occluded image and the prediction result of the original image, is the object importance. 1.gray\_out\_img\_dict\_for\_loss\_and\_info contains all occluded images prediction results, we generated more than 10K occluded images from 500 images.

2.trained\_model\_original\_action\_label\_csv

This folder contains the production result for the original images

Visualization

this folder only contains one Python file, transfer\_learning\_Visualization.py this file will be used to perform grad CAM on the pixel based end to end driving models to gain pixel level explanation,

call\_visualization.Py

This python file will call the above transfer\_learning\_Visualization.py, this file can perform grad CAM on different driving models and generate heatmap mask and heatmap based on the explanation results

explanation\_maker. Py

this python file will be used to generate object level explanation result for pixel based end to end driving models, based on this explanation results, This file will generate gradually shown image and save this data to this folder “gradual\_explanation\_img(object\_simulation)”, this data will be used in objective persuasibility experimental evaluation.

img\_dataset\_maker\_gray\_out.py

This code is only for reference, the purpose of this code is to generate all the occluded images. I think I will use the occluded images a lot, therefore, maybe it's more effective to make occluded images and saves them on the hard drive.

object\_heatmap\_maker

this code is used to generate heat map for the object level explanation generated by pixel based end to end driving models.