Create sub-dataset for each centroid in shortest path

1. Create video sequences and save in the folder ‘Drive’. Refer to ‘Drivetest’ for format.
2. Cd rpks folder
3. Run TEST\_kernel\_smile.m
4. The output centroids are in the folder ‘output’
5. Cd ..
6. Specify the centroids in clusterpts.m
7. This will create a folder for each centroid : Drive1b, Drive2b, Drive3b etc

Train the GAN models

https://github.com/dyelax/Adversarial\_Video\_Generation

1. Crop the dataset in folder ‘Drive1b’ into patches of size 32 x 32 :

python process\_data.py –num\_clips=10000 –train\_dir=Drive1b -o

1. Train the model for first centroid

python avg\_runner.py –test\_dir=drivetest –O –recursions=10 –model\_save\_freq=1000 –test\_freq=1000

1. Stop training after 10000 iterations.
2. Crop the dataset in folder ‘Drive2b’ into patches of size 32 x 32 :

python process\_data.py –num\_clips=10000 –train\_dir=Drive1b

1. Train the model for second centroid and initialize using first model

python avg\_runner.py –test\_dir=drivetest –O –recursions=10 –model\_save\_freq=1000 –test\_freq=1000 –l ../Save/Models/Default/model.ckpt-10000

1. Repeat steps 4 and 5 for all centroids
2. For testing only copy the scripts from folder ‘test’ :

python avg\_runner.py –test\_dir=drivetest –O –T –recursions=10 –l ../Save/Models/Default/model.ckpt-40000