Processing steps for clustering using t-SNE on latent features

Note that the 7 first steps are the same as the ones for classification and will NOT be repeated here. It is assumed that we already have created the CSV with file information and executed the frontend.

# Steps for mel spectrogram using fixed dimension

Assumes resizing was used.

8)

python machine-learning\fixed\_dim\_encoder\_clusterer.py --input\_file ..\mel\_D50T60\features\_melD50T60.hdf5 --triplet\_epochs 2 --epochs 100.

One may use parameter--continue\_training to load previously trained model and improve it.

9)

python machine-learning\write\_latent\_vectors.py --input\_file ..\mel\_D50T60\features\_melD50T60.hdf5 --input\_model ..\mel\_D50T60\features\_melD50T60\encoder\_models\encoder.h5

10)

python machine-learning\run\_tsne.py --latent\_vectors ..\mel\_D50T60\features\_melD50T60\encoder\_models\latent\_vectors.csv

Wrote CSV file without header output\_tsne.csv

11)

python machine-learning\plot\_tsne.py --input\_tsne\_file output\_tsne.csv --input\_file ..\mel\_D50T60\features\_melD50T60.hdf5