Frame interpolation project
Exercise 6
Advanced Deep Learning in Computer Vision

March 2024

In this exercise, you are asked to implement frame interpolation model and train it with various loss functions. You should write a pdf report as described in item 6.

You can evaluate your trained models with the script: `slow_movie.py`.

Your tasks are as follows:

1. Implement the dataloader.
   (See files `dataset/triplet_dataset.py` and `train.py`)

2. Implement the training loop.
   (See file `train.py`)

3. Implement the reconstruction loss.
   (See files: `loss.py` and `train.py`)

4. Implement the biderectional reconstruction loss.
   (See files: `loss.py` and `train.py`)

5. Implement the feature loss.
   (See files: `loss.py` and `train.py`)

6. Your process, performance evaluation, and results for last week and this week should be documented and discussed in a short PDF (2-3 pages) to be uploaded to DTU Learn.