Project proposals

Are you interested in Fashion and want to apply your newly acquired deep learning skills? Then this project is for you.

During the weeks following the project you will learn about setting up dataloaders by yourself and implementing deep neural networks from scratch, making use of many of the tools you have learned in the course.

For the proposed project, we will offer guidance Monday from 13-17. The data needed for the project can be readily downloaded (further instructions below).

Fashion Image Synthesis

Fashion Synthesis is all about generating new images of clothing, instead making them in real life. In this project we make use of the data in FashionGAN. It includes 78,979 images selected from the In-shop Clothes Benchmark which was included in the original DeepFashion challenge. Each image is associated with several sentences as captions and a segmentation map.

The 78,979 images is now officially released at:

http://mmlab.ie.cuhk.edu.hk/projects/DeepFashion.html , and can be downloaded from: https://drive.google.com/open?id=0B7EVK8r0v71pQ2FuZ0k0QnhBQnc (Google Drive) or https://pan.baidu.com/s/1PwJq0U2UPBWKkZvOR2lefQ (Baidu Drive).

The captions and segmentations for these images can be downloaded from FashionGAN.

Five benchmarks are developed using the DeepFashion database, including 'Attribute Prediction', 'In-shop Clothes Retrieval', 'Consumer-to-shop Clothes Retrieval', 'Landmark Detection' and 'Fashion Synthesis'.

NOTE! We will only focus on the 'Fashion Synthesis' dataset.

The image zip file passwords are listed as follows:
- In-shop Clothes Retrieval Benchmark: mmlab_DeepFashion_inshop
- Consumer-to-shop Clothes Retrieval Benchmark: mmlab_DeepFashion_consumer2shop
- Fashion Synthesis Benchmark: mmlab_DeepFashion_fashionsynth

Contact: pebch@dtu.dk