# Practice Autoencoders

## 50DT057

## Due on 15.03.2018

# 1 Learning to reconstruct images

In this example, we want to experiment with autoencoders for reconstructing images. We will use as a base code from this github project: `https://github.com/aymericdamien/TensorFlow-Examples`. The code has already been imported in our local repository and is located under `dl-perception-rg/sample_code/chapter_14`. Modify the file `autoencoder_original.py` to:

- Use the TensorFlow estimator API, store/restore checkpoints, and display the loss information in TensorBoard.

- Add one more layer in the encoder / decoder architecture and observe the effect on the final loss.

- Compare the two-layer and three-layer autoencoder with the same capacity.