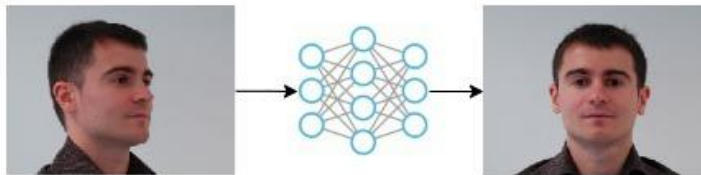# NTNU

Norwegian Biometrics Laboratory (NBL) is a distinguished research lab contributing actively to the biometrics research across Europe. NBL spans its expertise over physiological and behavioral biometrics including 2D & 3D face, iris, fingerprint, hand vein, gait, keystroke, gesture and mouse dynamics recognition.

Bachelor/Master Thesis
Face Image Frontalization with Deep Learning

OBJECTIVES & GOALS:

Diffusion models (DMs) achieve state-of-the-art synthesis results on image data and beyond. Recent models have shown impressive results in generating high-quality images and have even been used to generate AI Art. These models can be fine-tuned for certain domains and the guiding process can be used to control the generated images. The goal of this project is to use a diffusion model to produce frontalized portrait face image given an in-the-wild face image.

https://i.cs.hku.hk/fyp/2019/fyp19025/

TASKS:

- Suggest a novel model or build on top of one of the state-of-the-art models for face image frontalization.
- Benchmark the suggested model against other state-of-the-art models.

PREREQUISITES:

- High motivation and creativity
- Strong interest in research
- Programming experience

CONTACT:

- Wassim Kabbani (wassim.h.kabbani@ntnu.no)

NOTE: Highly qualified foreign students can get financial support to cover the cost of an internship.