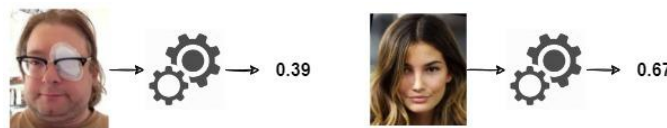# NTNU

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 Eyes Visibility Quality Assessment

OBJECTIVES & GOALS:

The performance of facial biometric systems, such as face recognition systems is heavily influenced by the quality of the images presented to them. The quality of a facial image is subject to many quality measures. One of these measures is the visibility of the eyes. Face detectors can report the number of eyes visible but how to get a continuous scalar value that expresses the visibility of the eyes?

TASKS:

- Select a face recognition (FR) model.

- Select a face detector that can report the degree of visibility of the eyes.

- Alternatively, adapt a detector that can only count the visible eyes.

- Systematically evaluate and report the impact of the quality values produced by this method on the performance of the FR model.

PREREQUISITES:

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

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