

*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.*

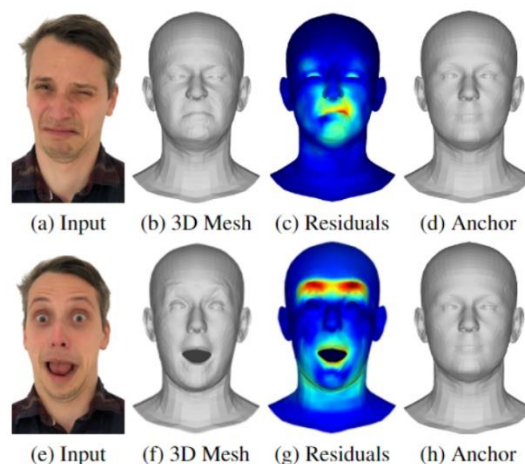
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## Master Thesis

### Efficient Quality Assessment for Expression Neutrality

#### OBJECTIVES & GOALS:

Assessing the quality of face images before using them for recognition is crucial to maintain high recognition accuracies. It has been shown that facial images with extreme expressions significantly affect the biometric performance. The goal of this project is to develop an **efficient** approach to measure the deviation from expression neutrality by using deep neural networks.



#### TASKS:

- Implementation of a **lightweight** neural network to estimate the deviation from facial expression neutrality.
- Evaluate your quality measures and benchmark them to alternative approaches.

#### PREREQUISITES:

- Interest in Deep Learning and Biometrics.
- Analytical and programming skills.

#### CONTACT:

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