



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.

Master Thesis Effect of beautification for morph attack detection

OBJECTIVES & GOALS:

Various freely available open source applications to beautify face are used to develop a dataset. Generated beautified dataset is enrolled in the face recognition system. Beautified facial images are morphed to generate morphing dataset. Task is to evaluate the performance of morph attack detection (MAD) for the face enrolled after beautification. There has not been any results proving the effects of beautification for MAD so far. If this task is of your interest, feel free to contact us and know more details.



TASKS:

- Generation of beautified face dataset.
- Evaluation of generated dataset using open-source face recognition systems.
- Work with state-of-the-art morphing techniques.

PREREQUISITES:

- Interest in image processing.
- OpenCV, C/C++, Java, Matlab

FURTHER READING:

- Face Recognition Systems Under Morphing Attacks: A Survey
- U. Scherhag, C. Rathgeb, J. Merkle, R. Breithaupt, and C. Busch. Face recognition systems under morphing attacks: A survey. IEEEAccess, 2019

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