
- Master Thesis -

Landmark-Based Ear Recognition in 3D Images

CASED

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Motivation & Goal

The outer ear is an emerging biometric modality, which has gained increasing attention in the last ten years. Using the ear as a biometric modality has some advantages compared to the face, such as the absence to facial expressions or ageing.

Using 3D representations instead of 2D images makes ear recognition more robust against pose variation and offers an additional dimension containing for feature extraction. In your master project you will investigate different possibilities for extracting landmarks from 3D ear images and set up experiments for evaluating their discriminating power and the overall biometric performance of your approach.

Tasks

- Investigation of existing approaches to 3D ear recognition
- Implementation of an ear recognition approach in MATLAB

Requirements

- Motivation and creativity
- Strong Interest in biometrics and computer vision
- Good programming skill (preferably MATLAB, but this is not mandatory)

Contact

If you are interested, please contact Anika Pflug

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