
- Master Thesis / Hiwi -

Advanced 3 Dimensional Face Recognition

CASED

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Motivation & Goal

3D face recognition is based on facial surface information. In comparison to 2D face recognition it is less sensitive to pose variation of a person or changing of ambient light conditions. Furthermore it is more resistant to spoofing attacks. As 3D acquisition devices become more efficient and inexpensive, the needs and interests on using 3D face recognition systems are growing. This thesis aims to optimize the existing 3D face recognition techniques in order to improve the recognition performance.

Tasks

- Detect facial landmarks such as nose tip, eye corners, mouth etc.
- Optimization of anthropometric 3D face recognition
- Selection of appropriate feature comparison methods

Requirements

- Strong interest in biometrics
- High motivation, creativity and ability to work independently
- Good knowledge of statistics and pattern recognition
- Knowledge of Matlab is a plus

Start date

Immediately

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