
–Bachelor Thesis –

Demographic Factors in Anonymisation of Facial Images

da/sec



da/sec is the biometrics and internet security research group and is affiliated with University of Applied Sciences Darmstadt and the National Research Center for Applied Cybersecurity (ATHENE). The group is led by Prof. Dr. Harald Baier and Prof. Dr. Christoph Busch. The focus of the group is on highly innovative and applied IT security research in the special fields of biometrics, internet security and digital forensics. Read more on www.dasec.h-da.de.

Motivation & Goal

In recent years, privacy has arisen as a major concern associated with biometric systems. Obscuring or anonymising faces in images and videos is one option, which can be used to protect privacy, while retaining certain level of visual coherence/intelligibility of the image. This project will investigate whether such methods work equally well across different demographic groups, or if demographic biases can be identified.

Tasks

- Survey on current research in this area
- Benchmark of existing (open source) anonymisation methods w.r.t. the accuracy of biometric algorithms (recognition, detection, classification) and evaluation of the effects of demographic factors

Requirements

- High motivation and creativity
- Good programming skills
- Strong interest in research
- Good analytical skills

By Date

By now / by appointment

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