

– Master-/Bachelor Thesis – Impact of Facial Tattoos on Face Recognition Systems

da/sec



da/sec is the biometrics and Internet security research group and is affiliated with University of Applied Sciences Darmstadt and the Center for Research in Security and Privacy (CRISP). 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

These days, many people have tattoos done on various body part including the face. Such tattoos which clearly affect their appearance and are expected to have an impact on face recognition systems. As current state-of-the-art face recognition systems have been show to generalize very well it is of interest whether they are able to compensate for changes in facial appearance caused by tattoos.

The goal of this project is to evaluate said scenario by developing an according face database and investigate the effect of facial tattoos on state-of-the-art face recognition systems.

Tasks

- Creation of face database of face images before/after tattoos
- Evaluation of face recognition systems on the created database

We offer

- Incentives for the student to work on this project (work within scientific context, international collaboration, work on project in collaboration with companies)

Requirements

- High motivation and creativity
- Programming skills
- Good analytical skills
- Interest in biometric recognition

By Date

By now / by appointment

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