

– Master-/Bachelor Thesis – Attacking Face Recognition with Textiles

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. Christoph Busch. The focus of the group is on highly innovative and applied IT security research in the special fields of biometrics. Read more on www.dasec.h-da.de.

Motivation & Goal

Face images can be printed on textiles, e.g. T-Shirts, to launch presentation attacks on face recognition systems. Such attack have high potential since they could also be performed in semi-controlled scenarios such as automated border control.

The goal of this project is to collect a database of presentation attacks based on textiles and evaluate the attack potential.

Tasks

- Creation of face database
- 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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