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Master-/Bachelor Thesis – Make-Up Attacks 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

Make-up artists have shown that it is possible to change the appearance of a person according to a target subject. Tutorials of how to create such make-up are already available on the web, e.g. YouTube. That is, make-up might as well be used to spoof biometric systems by launching presentation attacks.

The goal of this project is to evaluate the threat of such potential attacks by developing an according face database and investigate the vulnerability of state-of-the-art face recognition systems.

Tasks

- Creation of face database of make-up Attacks
- 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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