
– Master/Bachelor Thesis – Acceleration of Face Identification with Morphing

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

Morphing techniques can be used to create artificial biometric samples, which resemble the biometric information of two (or more) individuals in image and feature domain. While it has been shown that this technique can be used for nefarious purposes, it could potentially also be used to speed up the retrieval in biometric identification systems by using tree-based search structures. The goal of this project is to create such proof-of-concept implementation and evaluate it.



Tasks

- Implementation of a proof-of-concept system
- Evaluation of biometric performance and workload reduction

Requirements

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

By Date

By now / by appointment

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