
– Master-/Bachelor Thesis –

Effects of Beautification on Face Recognition

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

Specific apps can be used to beautify portrait images of faces prior to the enrolment in a face recognition system. So far, the effects of such image alterations on the recognition accuracy of face recognition systems have not been investigated thoroughly. The aim of this work is to create a new dataset of beautified face based on publicly available face datasets applying different beautification apps. In addition, biometric performance of different open-source face recognition systems on the created databases should be evaluated.

Tasks

- Creation of a face dataset of beautified faces
- Evaluation of open-source 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
- Good programming skills
- Good analytical skills
- Interest in biometric recognition

By Date

By now / by appointment

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