h_da
HOCHSCHULE DARMSTADT
UNIVERSITY OF APPLIED SCIENCES

fbi
FACULTY OF COMPUTER SCIENCE

ATHENE
Nationales Forschungszentrum
für angewandte Cybersicherheit

– Master-/Bachelor Thesis –
Face Recognition for Children

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. C. Busch and Prof. C. Rathgeb. 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

Usual applications of face recognition include smartphone unlocking or border control. Therefore, face recognition technologies are commonly trained to work on adult faces. However, certain forensic investigation like the analysis of child pornography requires face recognition to reliably identify children. In this context, the goal of this thesis is to re-train face recognition for children using provided synthetic face images of children.

Tasks

- Development of face recognition software for children.
- Evaluation of recognition performance.

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
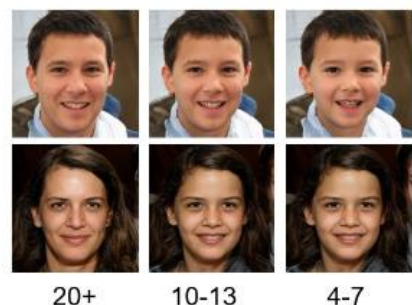- Interest in biometric recognition

By Date

By now / by appointment

Contact

Dr. Christian Rathgeb
Christian.rathgeb@h-da.de

h_da
Faculty of
Computer Science

20+   10-13   4-7

ATHENE – National Research Center for Applied Cybersecurity
da/sec – biometrics and internet security research group
Schöfferstraße 8b
64295 Darmstadt