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HOCHSCHULE DARMSTADT
UNIVERSITY OF APPLIED SCIENCES
fbi
FACULTY OF COMPUTER SCIENCE

ATHENE
National Research Center
for Applied Cybersecurity

– Master-/Bachelor Thesis –

Face Aging Simulation

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, internet security and digital forensics. Read more on www.dasec.h-da.de.

Motivation & Goal

"Can you tell me how I will look like in 10 years?" The Simulation of human face aging has recently gained high attention in the scientific community. Thanks to the invention of *Generative Adverserial Networks (GAN)*, a given face image can be synthesized into an arbitrary age, while preserving the person's identity. The goal of this project is to implement a GAN-based face aging method to compare it with related state-of-the-art works.

Tasks

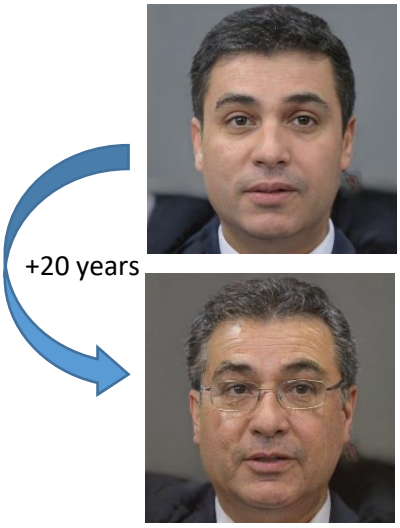
- Implementation and Evaluation of a GAN-based face aging method (e.g. with Tensorflow)
- Comparison with other state-of-the-art works

We offer

- Transferrable knowledge gain: GANs are very popular nowadays and can be used in many different applications
- Personal Development by working in a scientific and international context

Requirements

- High motivation and creativity
- Strong research interest
- Good programming & analytical skills
- Interest in Deep Learning



By Date

By now / by appointment

Contact

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