

– Master-/Bachelor Thesis –

Face Ageing with Latent Diffusion Models

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. Read more on www.dasec.h-da.de.

Motivation & Goal

Simulating the future appearance of an individual with deep generative models allows to estimate the impact of ageing on face recognition and potentially supports with finding long-term missing subjects. The goal of this project is to simulate face ageing with conditional diffusion models.

Tasks

- Implementation of a diffusion model conditioned on age.
- Evaluate the accuracy and identity preservation of your proposed approach and compare it to related works.

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

- Interest in biometric systems and computer vision.
- Analytical and programming skills.

By Date

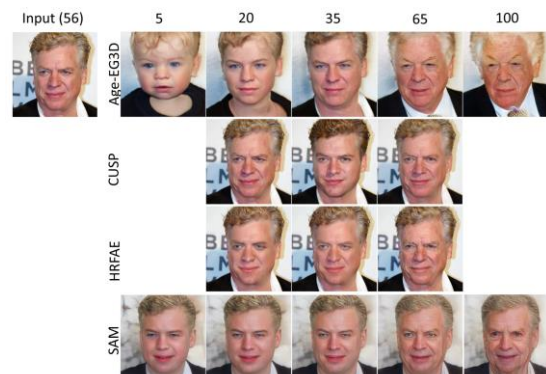
By now / by appointment

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