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Master-/Bachelor Thesis – Deep Learning-based Face Image Quality Assessment

da/sec



Motivation & Goal

da/sec is the biometrics and 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.

Deep learning-based methods have shown to obtain competitive performance for assessing the quality of facial image, i.e. their utility for biometric recognition. In the recent past, numerous approaches have been proposed and made publicly available. However, a comprehensive survey and benchmark of published methods is missing.

Tasks

- Survey on latest deep learning-based methods for face image quality assessment.
- Benchmark of methods for face image quality assessment using standardized metrics.
- Discussion and interpretation of experimental results.

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

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