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Master-/Bachelor Thesis – Human Detection of Manipulated Face Images

da/sec



Motivation & Goal

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.

Manipulating face images has become easy even for unskilled users and can cause severe security issues in face recognition systems. Compared to automated detection systems, humans may have different decision criteria to identify such manipulated images.

The goal of this project is to analyse the performance of humans for the task of face image manipulation detection and perform a fusion of human decisions with automated systems.

Tasks

- Evaluation of human performance for face image manipulation detection
- Fusion of human decisions
- Fusion of human decisions with automated detection algorithms

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

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