

TrustEYE

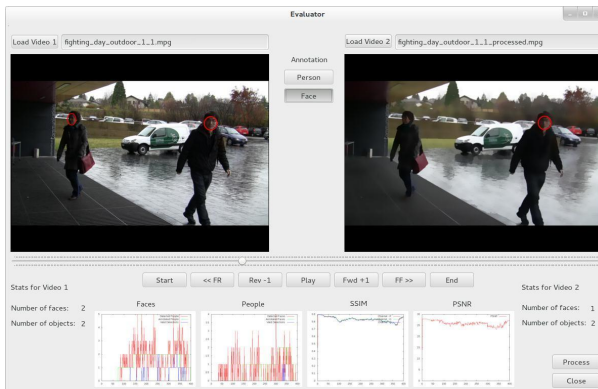
Trustworthy Sensing and Cooperation in Visual Sensor Networks

The Pervasive Computing Group is looking for a student from the field of Informatics, Information Technology or Computer Science for a **research project** or a **Bachelor / Master thesis** entitled:

Development of Video Filter Evaluator With special interest on the assessment of privacy filters

This work will be performed as part of the TrustEYE research project. Background information about the TrustEYE project and its goals can be found at <http://trusteye.aau.at>

Work Description



Plenty of **video filters** have already been developed and their number is continuously rising, but it is hard to determine **how good** they are from certain aspects or **which is better** than the other. The output results of video filters can be evaluated based on many different metrics. Within the TrustEYE project

we are especially interested in the **evaluation of visual privacy filters**. The goal of this project is to **develop a cross-platform, plugin-based desktop application** that provides an intuitive GUI for evaluating video filters. Each evaluation criterion is planned to be implemented in a separate plugin. This way it is possible to include new metrics into the evaluation by simply adding a new plugin later to the evaluator. The GUI should support **parallel video playback** with the usual controls (such as play, stop, pause, fast-forward, etc.) and a customisable area for **displaying measurement results** both in form of numbers and in form of graphs. The application should also be able to handle ground-truth data that is usually provided with test data-sets. Furthermore, it should be able to **save measurement data** in various formats.

Required Skills:

- Experience with software design
- Advanced programming skills in C++ and QT

Desired Skills:

- Experience in image/video processing
- Basic knowledge about statistics and data acquisition



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