

TrustEYE

Trustworthy Sensing and Cooperation in Visual Sensor Networks

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

Region of Interest Detection and Anonymization in Video-Streams

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

There is recently a growing need to discover various kinds of activities that occur in videos. Detection of human activities in restricted settings such as airports, parking lots and banks is of significant interest in security and automated **surveillance systems**.

Reliable activity detection would have major practical value for other applications as well, such as video indexing, video searching, video-based human-computer interaction, remote elderly care, etc. Successful processing of recorded videos is also a non-negligible result, but a really smashing solution would be an **on-line/real-time** technique. The main objectives of this project are evaluation of existing solutions, and development of a new system that can **automatically find activities** and movements in a video scene and **distort image** within particular RoIs, such as licence plates or faces. A further extension of the project could be the detection and identification of particular abnormal and unusual activities, like a street fight or a bank robbery.



Required Skills:

- Advanced programming (e.g. C, C++, C# or Java)

Desired Skills:

- Computer vision
- Artificial intelligence
- OpenCV
- Linux



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