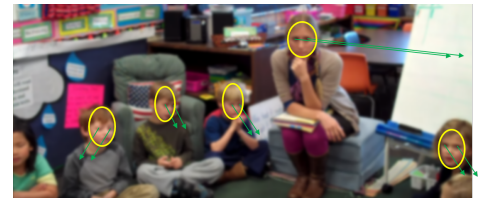




Crowd attention tracking

Description:

We want to be able to track eye and head movements of a crowd of people, such as a whole classroom. Thereby we can infer measures about current attentional focus, e.g. whether students pay attention to the lecture material and when attention decreases. Therefore we will record high resolution videos of multiple persons in a naturalistic setting, including a variety of head poses and eye positions.



Task:

This work can be subdivided into (1) finding faces in the video stream, (2) determining face orientation, (3) extracting the eye region, (4) applying calibration free gaze direction calculations.

Requirements:

Knowledge and interest in image processing. Programming knowledge in C++ and Matlab is of advantage.

Supervisors:

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