Computer Vision Based Systems for Human Pupillary Behaviour Evaluation: A systematic review of the literature

* Analyzing pupillary behavior is crucial for assessing neurological activity.
* Examining pupil behavior is a simple, low-cost method that can be used as a complementary diagnosis. This approach is made be recording the pupillary behavior against light stimuli and measuring the pupil diameter through the video.
* Pupil diameter based on the intensity of illumination in the eye.
* Pupillometry has a dependency on devices with ifrarred cameras. Such devices, combined with computer vision software are responsible for the image acquisition, processing and feature extraction, essential steps for pupillary behavior evaluation.
* Pupillometry systems can provide an efficient solution by extracting reliable data for medical evaluations.
* Q01. What are the specifications of devices used for image acquisition? And what are the types of environment where images are taken?
* Q02. What are the methods applied for pupil segmentation?
* Q03. What are the procedures used to induce pupillary behavior?
* Q04. What are the methods used to interpolate the blinking gaps?
* Q05. What are the features extracted for pupillary behavior evaluation?
* Q06. What are the levels of accuracy from the proposed systems?