Eyeball Cursor Movement Detection Using Open CV

Abstract:

For a number of reasons, people require artificial methods of mobility like a virtual keyboard. the amount of people who need an object to help them move around due to a medical condition. The idea of eye controls is particularly advantageous for the growth of natural input and, more importantly, for the underprivileged and disabled. The camera records the movement of the eyes. FSirst, find the centre of the pupil of the eye. The virtual keyboard then receives customized commands for each variation of pupil position. The signals travel through the motor driver and then to the virtual keyboard itself. The motor driver's ability to regulate direction and speed allows the virtual keyboard to move forward, left, right, and stop. OpenCV is used to carry out this pupil detection technique. The procedure involves taking a picture of an eyeball using a camera. Simply move your eyeball in the desired direction to move the pointer, then blink your eyes to put the cursor.