

Virtual Mouse Control by Webcam for the Disabled

Abstract:

Image processing, with the development of technology, has a very wide field of usage. The health sector is also one of these uses. Much progress has been recorded on image processing and eye tracking. The both processes have software application. Image processing, a subdivision of the signal processor, can consist of an image or video-like visual objects as input and output as an image or various parameters of it. Also eye tracking is a kind of image processing process. In general terms, eye tracking refers to eye movements, image processing or image processing through the input and the recorded data as software.

This project was developed for people who are inadequate in terms of use of mouse with hands. In this thesis study, a real-time view can be obtained with the help of colors, eye movement is perceived to be followed and processed, and then to monitor these eye movements using the MATLAB® program for mouse control by using a webcam. Separately a virtual menu is created by adding warning buttons that indicate the basic needs of the person to be easy to use.

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