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

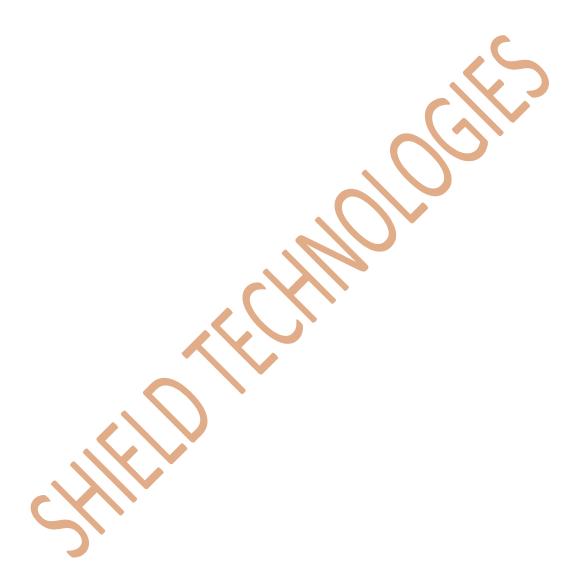
mouse with hands. In this thesis study, a real-time view can be obtained with the

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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