A GESTURE BASED TOOL FOR STERILE BROWSING OF RADIOLOGY IMAGES

A hand gesture system for MRI manipulation in an EMR image database called “Gestix” was tested during a brain biopsy surgery. This system is a real-time hand-tracking recognition technique based on color and motion fusion. In an in vivo experiment, this type of interface prevented surgeon's focus shift and change of location while achieving, rapid intuitive interaction with an EMR image database.

Problem statement :

Traditional methods of human-computer interaction fail to provide an efficient method of medical image manipulation supporting users' focus of attention. With the advent of Artificial Intelligence, a new mode of interaction, Gesture-based interaction is introduced. Gesture-Based interaction provides an efficient, intuitive,

accurate and safe means of interaction without affecting the quality of work.

In this project Gesture based Desktop automation ,First the model is trained pre trained on the images of different hand gestures, such as a showing numbers with fingers as 1 ,2,3,4 . This model uses the integrated webcam to capture the video frame. The image of the gesture captured in the video frame is compared with the Pre-trained model and the gesture is identified. If the gesture predictes is 1 then images is blurred;2, image is resized;3,image is rotated etc