

A GESTURE BASED TOOL FOR STERILE BROWSING OF RADIOLOGY IMAGES

PROBLEM STATEMENT:

Humans are able to recognize body and sign language easily. This is possible due to the combination of vision and synaptic interactions that were formed along brain development . In order to replicate this skill in computers, some problems need to be solved: how to separate objects of interest in images and which image capture technology and classification technique are more appropriate, among others.

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 predicts is 1 then images is blurred;2, image is resized;3,image is rotated etc.

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| Who does the problem affect? | People who don't have proper system, camera facility and lightening facility. |
| What is the issue? | A gestured based tool for Sterile browsing of radiology images is difficult to develop because of the complexity and the cost of implementation. If we don't have proper lightening it's difficult to find the accurate recognition of the gesture. |
| When does the issue occurs? | When system is not platform independent. These systems are difficult to develop because of the complexity and the cost of implementation. Proper lightening should be ensured for accurate recognition of gesture. |
| Why is the issue occurring? | The issue occurs when the system is unable to track the hand gesture. |
| Why is it important to fix the problem? | By solving these issues those peoples who don't have proper system, camera and lightening facility can use this application. |