Abstract

The computer industry is developing at a fast pace. With this development almost all of the fields under computers have advanced in the past couple of decades. But the same technology is being used for human computer interaction that was used in 1970’s. Even today the same type of keyboard and mouse is used for interacting with computer systems. With the recent boom in the mobile segment touchscreens have become popular for interaction with cell phones. But these touchscreens are rarely used on traditional systems. This paper tries to introduce methods for human computer interaction using the user’s hand which can be used both on traditional computer platforms as well as cell phones. The methods explain how the user’s detected hand can be used as input for applications and also explain applications that can take advantage of this type of interaction mechanism [1] [2].

References

Implementation of Hand Detection based Techniques for Human Computer Interaction

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- Contours, Convex Hull and Convexity Defects http://docs.opencv.org/modules/imgproc/doc/structural_analysis_and_shape_descriptors.html

Index Terms

Computer Science
Artificial Intelligence

Keywords
OpenCV Thresholding Contour Convex Hull Convexity Defects Gesture Controlled Robot
Pick and Place Robot
Finger Tracking
Hand Orientation