Abstract

Despite the advances in computing hardware technologies, the two-button computer mouse has remained the predominant means to interact with a computer. In this paper a system has been designed for implanting an invisible computer mouse that enables interaction with computer without attaching a hardware mouse. Sixth Sense Technology is used for this purpose. The aim of this technique is the use of a real time vision system for its application within visual interaction environments through hand gesture recognition, using general-purpose hardware and low cost sensors, like a simple personal computer or an USB web cam, so that any user could make use of it in his office or home. A fast segmentation process is used to obtain the moving hand from the whole image against different backgrounds and lighting conditions. The
movements and arrangements of the hand fingers are grasped as gestures that act as an interaction instruction for the projected application interfaces.

References


Index Terms

Computer Science

Applied Sciences

Keywords

Sixthsense Colour Markers Segmentation