Gesture Controlled Virtual Mouse

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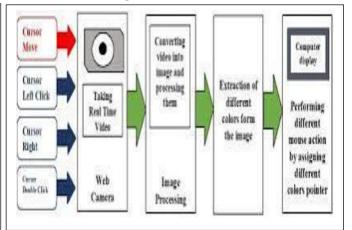
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Abstract

- Aims to create an innovative human-computer interaction system by enabling users to control a computer's cursor and perform mouse actions using hand gestures.
- By employing a camera to capture live video input of the user's hand movements, the system accurately detects and interprets predefined gestures, translating them into corresponding cursor movements and mouse actions.

Architecture Diagram



Significance of the Project

Some work which is related to the AI virtual mouse had been performed previously in that glove were used by the user to recognize and collect data from the system. Later another system used coloured pieces of paper which are attached on hands for gesture recognition. But these systems are not very feasible for performing mouse operations accurately. In a glove-based approach recognizing the gloves is not viable and it might be allergic for users who have sensitive skin type. Also wearing gloves for a long time is difficult. It might sweat and result in skin rashes and

Conclusion

Virtual mouse using hand gestures is an innovative and exciting technology that has the potential to revolutionize the way we interact with computers. Here with the aid of a real-time camera, we have created a system to manage the mouse pointer and carry out its function. It offers users a more natural, intuitive, and accessible way to control the cursor on the screen, without the need for a traditional input device, a mouse.

Conference/Journal Publication Details (If Any)

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