

Domain: Web Development

Batch No: A30



G. Narayanamma Institute of Technology & Science (For Women) (Autonomous)

Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad
Accredited by NBA & NAAC, an ISO 9001:2015 Certified Institution
Shaikpet, Hyderabad-500104

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

<GN-R-18> (2022 - 2023) II B.Tech II Sem Hobby Project

on "Cursor Movement on object Motion"

Abstract

Several new interfaces provide possibilities for the realization of human-computer interaction including the controlling system based on human movement. The human - computer interaction is able to detect the cognitive actions, the human and computer can have much more than an interaction (HCI). Here we propose to change the hardware design. Most of the existing technologies mainly depend on changing the mouse parts features like changing the position of tracking ball and adding more buttons. We use a camera, image comparison technology and motion detection technology to control mouse movement and implement its functions. The applications of real time hand gesture recognition in the real world are numerous due to the fact that it can be used almost anywhere where we interact with computers. Hand gesture depend upon camera based color detection technique. Current methods involve changing mouse parts such as adding more buttons or changing the position of the tracking ball. Instead our method is to use a camera and computer vision technology, such as image segmentation and gesture recognition, to control mouse tasks (left and right clicking, double-clicking, and scrolling) and we show how it can perform everything as current mouse devices can.

H/W & S/W Requirements

H/W Requirements: Intel Core I5 processor, 64-bit operating system, 16GB RAM, 512GB SSD

S/W Requirements: HTML, CSS, Python

*Dept R&D: No

* If No : GNITS



21251A0507
G.Sinduja Reddy

sindhu54536@gmail.com
9502653466



21251A0533
A.Rupika Reddy

rupikareddyaleti@gmail.com
9391456569

Project Coordinator

Head of Department

PRINCIPAL
G. Narayanamma Institute of
Technology & Science (for woman)
(AUTONOMOUS)
Shaikpet, Hyderabad - 500 104.