Handrithum Gaming Hub

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Abstract*: The "Handrithum Gaming Hub" Project Is an Exciting Blend of Computer Vision and Gaming Tech. Our Main Goal Is to Make Gaming More Fun by Creating a Pong Game That You Control Using Your Hands, Thanks To OpenCV-Based Hand Tracking. Imagine playing Pong without the need for a keyboard or joystick simply move your hands in the air to control the game. Through the use of smart image processing techniques, we capture and interpret hand movements in real-time, allowing for effortless control of the Pong paddles. This seamless interaction between gestures and game commands transforms the gaming experience, making it as natural as possible. Delving into the realm of computer vision, we harness the power of OpenCV to meticulously track every movement of the player's hands. The result is a swift and fluid translation of hand actions into precise game commands, elevating the gaming experience to a new level. Players will feel a physical connection to the game as they effortlessly guide the paddles on the screen with their hands.*

Keywords: Gesture-Controlled Gaming, Open CV, Hand Tracking Pong Game, Computer Vision, Image Processing, Human-Computer Interaction, Interactive Digital Experiences, Innovative Interfaces, Future Technology

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DOI: 10.48175/IJARSCT-15634

ISSN
2581-9429
IJARSCT

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