Six sense (A step toward advance world)

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ABSTRACT

This paper deal with the description and advanced use of Six Sense Technology in the scientific field. This technology is based on the gesture recognition concept. The camera of the six sense device capture the image or the gesture made by the user and device perform the specific task. This technology totally aims at avoiding the hardware and make the digital world to be controlled by a hand gesture.

*Keywords***:** *Gesture technology, Live presentation, Speechless people, Investigation*

1. INTRODUCTIION

Every day something new is added to the field of science or technology, which makes the technology to become smarter and smarter day by day. Starting from the birth of the digital world we have a computer as big as a room, now a day it reduces to a laptop, notebook or tablet. Still, we want to synchronize the device as much as possible. This is only possible with the upcoming Six Sense Technology. This technology will bring a new era by a revolutionary change in the field of science and technology.

We human use the five sense to know about the happing around us, by observing the idea we decide to perform an action. Similarly, we want a technology that can detect the action happing around us, decide and take some action.

2. COMPONENTS REQUIRED

Sense Technology required
1. Camera
2. Projector
3. Laptop/mobile
4. Colour marker

2.1 Camera

Fig. 1: Camera

It acts as a digital eye in the six sense device, it monitors the action happing around us, it continues to capture the surroundings and keep track of the hand gesture. Once the camera detects the hand gesture it captures the hand gesture and sends the data to the computing system to process it and convert it into the action.

2.2 Laptop/Mobile

Fig. 2: Laptop

Laptop or the mobile act as the computing device it receives the input information from the camera and processes it and produce the output. It consists of series of a program written for the each and every gesture tracked by the camera to convert it into action. It processes the gesture tracked by the camera process and gives it output through the projector.

2.3 Projector

Fig. 3: Projector

The projector displays the result produced by the computing machine. It needs the solid platform to display the result such as wall or paper, to be more advanced the 3D projector will create a 3D image in the front of the user.

2.4 Colour marker

Fig. 4: Colored markers

The camera only keeps track of the colored marker, it only recognizes the movement and gesture made by the color marker. The device needs to make understand to response for only the particular color marker chooses by the user.

3. MY DEVICE AS THE 6TH SENSE DEVICE

In order to make the simple prototype of six sense device, we need to have at least a camera, a computing machine, and projector. But I have made my laptop as the six sense device, the camera of laptop act as the digital eye, the internal hard disk has the set of program, part of screen act as the projector and the part of screen act as the surfaces for displaying.
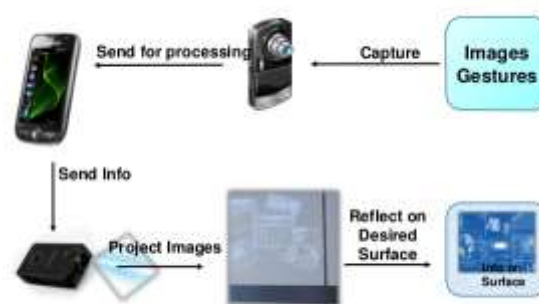
3.1 How does it work?

Fig. 5: Working structure

The camera capture the gesture made by the user, it sends the data to the computing device, its process and gives the information to the projector and it displays the output of the computing device.

3.2 My idea
Idea 1:
To develop the computing machine i.e. laptop or tablet without an external hardware such as keyboard , mouse etc. the program for the control of cursor can be run at the startup programs of the laptop thus we do need any hardware to run the machine , As the machine start the program for the six sense run which activate the system camera to detect the gesture and user can run machine but At the beginning we need to make the device to understand the colour combination made by the user and action to be performed by the system. If this idea success it will bring new technology into the market, that uses the natural hand gesture to run the machine.

Idea 2:
Helping the speechless:
We can help the speechless people using gesture technology. It will take gestures as input for the system, analyze it and give output using a speaker.

We, humans, want to develop intelligent systems. We can do it by introducing machine learning. By doing this gesture technology will be able to improve it by collecting data pertains to the user. After identifying the pattern gesture technology will adjust with the same and provide the better user experience.

Idea 3:
Gesture technology in police investigation:
1. The police officer attending the crime scene can analyze the data immediately at the site itself and expedite the investigation. By giving gesture commands we can record the data and evidence around. It can record the data so accurately which may not be possible by the human eye and help to corroborate with a crime.

2. It can also help in recording the dying declaration of a speechless victim by reading his gestures, which is admissible in a court of law.

3. At the time of interrogation a criminal, it can help the interrogations third eye and record the gestures of the criminal or witness and analyze the same with AI.

3.3 Live presentation
We try to include the live presentation on gesture technology to give an idea about the upcoming technology. In the presentation we run the window media player, PowerPoint presentation, from our own hand gesture, moreover
We will show the movement of the cursor from our hand gesture.

4. CONCLUSION
The key feature of this technology is that it recognizes the object around us as we humans use our five senses to recognize to our surrounding. It needs a lot of development in this field which will change the meaning of the digital world. If this technology succeeds the whole world will be at figure tip.

5. REFERENCE
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