

# AI and its Application: sixth Sense Technology

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**Abstract:** *Artificial intelligence is a human endeavor to create a non-organic machine-based entity that has all the above abilities of natural organic intelligence. Artificial Intelligence in the form of expert systems and neural networks have applications in every field of human endeavor as Heavy Industries and Space Finance, Computer Science, Aviation, Weather Forecast, Swarm Intelligence and sixth sense technology. Sixth sense technology has integrated the real world objects with digital world. The fabulous 6th sense technology is a blend of many exquisite technologies. Sixth Sense is a wearable gestural interface that enhances the physical world around us with digital information and lets us use natural hand gestures to interact with that information. Sixth sense technology is a perception of augmented reality concept. Like senses enable us to perceive information about the environment in different ways it also aims at perceiving information. Now we can get information from physical world as well as we get information from the digital world which has become a part of our life. This digital world is now as important to us as this physical world. And with the internet the digital world can be expanded many times the physical world. And our physical body isn't meant for digital world so we can't interact directly to the digital world. We don't communicate directly and efficiently to the digital world as we do with the real world. The sixth sense technology is all about interacting to the digital world in most efficient and direct way. Sixth sense technology is the application of AI. Artificial intelligence (AI) is an area of computer science that emphasizes the creation of intelligent machines that work and react like humans. Some of the activities computers with artificial intelligence are designed for include speech recognition, learning, planning and problem solving. Artificial Intelligence is the study of human intelligence such that it can be replicated artificially. In this paper we have identified relationship between AI and its application, Sixth Sense Technology (2) and how sixth sense technology is useful to interact the physical world around us with digital information.*

**Keywords:** AI (Artificial Intelligence), Application of AI, sixth sense technology, Use of sixth sense technology and Advantage of sixth sense technology

## 1. Introduction

AI is technology and a branch of computer science that studies and develops intelligent machines and software. Currently popular approaches include statistical

methods, computational intelligence and traditional symbolic AI. There are an enormous number of tools used in AI, including versions of search and mathematical optimization, logic, methods based on probability and economics and many others. The ability of a computer or other machine to perform actions thought to require intelligence. Among these actions are logical deduction and inference, creativity, the ability to make decisions based on past experience or insufficient or conflicting information. It has ability to evaluate data and make decisions according to parameters set out in the software. Automated underwriting software is a type of artificial intelligence. Artificial intelligence, also known as machine intelligence, is defined as intelligence exhibited by anything manufactured by humans or other sentient beings or systems. It is usually hypothetically applied to general-purpose computer. The term is also used to refer to the field of scientific investigation into the plausibility of and approaches to creating such systems. 'Sixth Sense' is a wearable gestural interface that augments the physical world around us with digital information and lets us use natural hand gestures to interact with that information. The hardware components are coupled in a pendant like mobile wearable device. It's the beginning of a new era of technology where engineering will reach new milestones. Just like in the science fiction movies where display of computer screen appears on walls, commands are given by gestures, the smart digital environment which talks to us to do our work and so on, these all will be possible very soon. It can make possible whatever we think.

## AI and Its Application

A.I. is set to play an important role in our lives. It is both the intelligence of machines and the branch of computer science which aims to create it. Artificial intelligence is "the study and design of intelligent agents,"<sup>[1]</sup> where an intelligent agent is a system that perceives its environment and takes actions which maximize its chances of success.<sup>[2]</sup> In 1956, John McCarthy, defined it as "the science and engineering of making intelligent machines."<sup>[3]</sup> AI also overlaps with tasks such as robotics, control systems, scheduling, data mining, logistics, speech recognition, facial recognition and many others. The aim of Artificial Intelligence is to develop the

machines to perform the tasks in a better way than the humans. Another aim of Artificial Intelligence is to understand the actions whether it occurs in humans, machines or animals. As a result, Artificial Intelligence is gaining Importance in science and engineering fields. Presently the AI is being used in various field like Sixth sense Technology, robotics,finance, remote sensing, Telecommunication, aviation, medical diagnosis, scientific discovery & used to create models and software which are use to solve any problem.

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### **Sixth Sense Technology**

Sixth Sense Technology integrates digital information into the physical world and its objects, making the entire world your computer. It can turn any surface into a touch-screen for computing, controlled by simple hand gestures. It is not a technology *which* is aimed at changing human habits but causing computers and other machines to adapt to human needs. It also supports multi user and multi touch provisions. Sixth Sense device is a mini-projector coupled with a camera and a cell phone-which acts as the computer and your connection to the Cloud, all the information stored on the web.

This technology is combination of some stunning technologies. It is mainly based on hand gesture recognition, image capturing, processing, and manipulation, etc. The camera is used to recognize and track user's hand gestures and physical objects using computer-vision based techniques, while the projector is used to project visual information on walls or on any physical thing around us. Other hardware includes mirror and colored caps to be used for fingers.

The software of the technology uses the video stream, which is captured by the camera, and also tracks the location of the tips of the fingers to recognize the gestures. This process is done using some techniques of computer vision.

The sixth sense also implements map which lets the user display the map on any physical surface and find his destination by just using his gestures. The device also display current time on our wrist as well as recognize people by projecting information related to them. The important thing is that the device is a mobile device. Means, it is so light that we can take it with us where ever we want to. It is as small as a cell phone and is so simple to use.

### **Application of Sixth Sense Technology**

There are various fields where Sixth Sense Technology is used.

#### **1. Fingers as brush:**

The user can draw anything on paint with the help of his fingers. This drawing can be 3D also. Hence, no need to use mouse.

#### **2. Capture photos with fingers**



Using the fingers the user can capture photos hence, no need to carry an additional gizmo. The box created by the fingers act as frame for capturing photo.

#### **3. Palm is the new dialer**



This technology enables the user to call without using the dialer. The dialer will be projected on palm and the user can dial the number using other hand.

**4 .Read Books easily:** Check out the ratings of the Book you are going to buy, it checks the ratings from the internet. And another amazing thing is that it reads the book for you.

**5 .Video Newspapers:** like the video newspapers of Harry Potter this technology identifies the news headline and then projects the relevant video.

#### **6. Check your Flight Status**



Just place the ticket in front of the projector and it checks its status from the internet.

7. Access anywhere internet



The users can browse internet on any surface even on their palm.

8. Clock:



The user just needs to make gesture of clock and the watch will be projected on the user's hand.

**Advantages of Sixth Sense Technology**

In present era Sixth sense technology is most exquisite technology. We can also start our work at any place like any wall, some T-shirt and even our palm. Sixth sense technology is most intelligent device even more intelligent than human itself and its size is diminishing day by day.

*It can act like an encyclopedia:*

It will easily scan the book we actually want to read. It not only can scan simple book it can also scan newspaper, different magazines, novels.

*Provide reliable information*

It is a portable device with unlimited benefits. It provide us various information within just few minutes like flight timing, train timing , help us in reservations, weather detail of some other place. Not only this it can be very helpful to us for doing emails, accessing different websites, using adobe reader, will get all information regarding different graphs

*Very creative technology:*

We can play huge number of games, we can paint, can watch different videos even on newspaper we are reading, we can edit your pictures, can zoom in and out by just using the movement of our hands. This device is multitasking with many applications.

*It is not less than magic in this present time:*

In this we use integrated devices like camera, mirror and projector. Now a day we use laser projector by using laser projector we do not need to adjust focus it got adjusted itself. In this camera capture same as user capture. For example if we keep some book in hand then camera will notice the cover of the picture and will search for books online and will tell us cheapest price.

*This technology will save our time:*

This device will save our huge time as we just have to use gestures to perform different tasks. Like if we want to make some phone call just make gesture of making phone call in similar way when we want to click photo just make gesture of clicking photo. If we want to know the time just make circle on our wrist and we will get to know about. So this technology act like time saver

*It can act like an encyclopedia:*

It will easily scan the book you actually want to read. It not only can scan simple book it can also scan newspaper, different magazines, novels. After doing scan it provide us with myriad number of books with their rating, price etc.

**Conclusion**

Sixth Sense Technology is the most popular and current application of AI and it has seamless applications. This can be used as a replacement of the 5<sup>th</sup> senses for handicapped peoples. This can provide easy control over machineries in industry. This will have different application for different developers just depending upon how he imagines and what he wants. This Software can be make open source so that individuals can make their own application depending upon needs and imagination. As this technology will emerge may be new devices and hence forth new markets will evolve.

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