

An Insight Into The Future With Blue Brain And Blue Eyes Technology!

"There is more we don't know about the brain than we currently know"

There's always a hidden meaning behind everything and to unfold what it holds in itself is rather the biggest challenge to many scientists. Many mysteries have been solved and still the number of unsolved mysteries outweigh the solved ones. The field of Neuroscience is still entangled in turning yesterday's brain 'facts' into today's brain 'myths'. Did you know-"That a piece of brain tissue, the size of a grain of sand, contains 100,000 neurons and 1 billion synapses all communicating with each other"!



It is estimated that every one in four people will suffer from one of around 560 brain diseases during their lifetime. The living brain is very difficult to study both from a technical perspective and a moral one. Therefore, a virtual model makes direct observations possible. The **Blue Brain Project** is an attempt to reverse engineer the human brain and recreate it at the cellular level inside a computer simulation. This project was founded by Henry Markram in May 2005. There are basically three main steps in order to create a virtual or a blue brain. This includes- Data acquisition, simulation and visualization of results. The aim of the Blue Brain Project is to provide a centrally coordinated resource for the 200,000 active neuroscientists in the world. Previously each researcher has focused on their own specialist field without the results being shared and easily available to all. The BBP hopes to build a bigger, better platform for neuroscientists to experiment on.

Now imagine yourself in a world where humans interact with computers which can listen, talk, or even scream aloud. It uses techniques like facial recognition, speech recognition in order to interact with humans and can even understand our emotions at the touch of the mouse. It verifies our identity and starts interacting with our mood variations. This is what exactly **Blue Eyes Technology** provide us.



Blue Eyes Technology aims at creating computational machines that have perceptual and sensory ability like those of human beings. It uses non-obtrusive sensing method, employing most modern video cameras and microphones to identify the user actions through the use of imparted sensory abilities. The machine can understand what a user wants, where he is looking at, and even realize his physical or emotional states. This would enable computers to work together with human beings as intimate partners.

The process of making a computer having sensing and emotional capabilities is known as “*Affective Computing*”. For designing such type of computers we need to first process the giving sensing capacity, the process of detecting Human Emotion or Affect Detection and responding appropriately and properly.

For emotion sensing, the types of devices used in Blue Eyes Technology-

For Hand- There is an *Emotion Mouse* which is an input device to track the emotions of a user by a simple touch on it. Basically, it gathers physical and physiological information by a simple touch.



Source: mepits.com

For Eye- There is Expression Glass which analyze pattern recognition methods and facial muscle variations. The glass senses and identifies the expressions such as confusion and interest in the user.



Source: mepits.com

Researchers are attempting to add more capabilities to computers that will allow them to interact like humans, recognize human presents, talk, listen, or even guess their feelings.

Blue Eyes technological approach is a convenient technique which simplifies our lives by user friendly provision with elegant features. Just wait for the day when this technology will come to your house and will make you even more lazier than before!