

BLUE BRAIN

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Abstract: Blue brain is the world's first virtual brain. That means a machine that can function as human brain. Human brain is a most valuable creation of god. The man is called intelligent because of brain. Within 30 years, we will be able to scan ourselves into the computers So, even after the death of a person we will not lose the knowledge, intelligence, personalities, feelings and memories of that man that can be used for the development of the human society.

Keywords: blue brain, virtual brain, man brain

INTRODUCTION

The **Blue Brain Project** is an attempt to reverse engineer the human brain and recreate it at the cellular level inside a computer simulation. The project was founded in May 2005 by Henry Markram at the EPFL in Lausanne, Switzerland. Goals of the project are to gain a complete understanding of the brain and to enable better and faster development of brain disease treatments. Human Brain, the most valuable creation of god. The man is called intelligent because of brain. But we lose the knowledge of a brain when the body is destroyed after the death. **"BLUE BRAIN"** - the name of the world's first virtual brain. That means a machine that can function as human brain.

BLUE BRAIN

BLUE BRAIN would be the world's first virtual brain. The IBM is now developing a virtual brain known as BLUE BRAIN. Within 30 years, we will be able to scan ourselves into the computers.



WHAT IS VIRTUAL BRAIN?

- ✓ A machine that can function as a brain.
- ✓ It can take decision.
- ✓ It can think.

- ✓ It can response
- ✓ It can keep things in memory.

WHY WE NEED VIRTUAL BRAIN?

- ❖ To upload contents of the natural brain into it.
- ❖ To keep the intelligence, knowledge and skill of any person forever.
- ❖ To remember things without any effort.

FUNCTIONING OF BRAIN

Sensory input: Receiving input such as sound, image, etc. through sensory cell.

Interpretation: Interpretation of the received input by the brain by defining states of neurons in the brain.

Motor outputs: Receiving of electric responses from the brain to perform any action.

Now there is no question for how the virtual brain will work. But the question is how the human brain will be up loaded into it. This is also possible due to the fast growing technology

UPLOADING HUMAN BRAIN

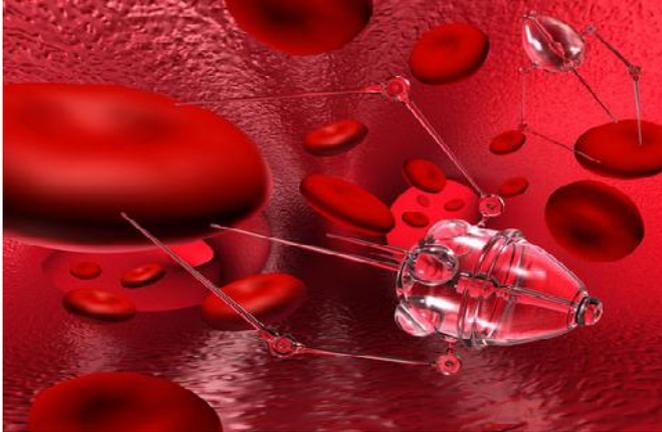
The uploading is possible by the use of small robots known as nanobots. These robots are small enough to travel throughout our circulatory system. Travelling into the spine and brain, they will be able to monitor the activity and structure of our central nervous system.



UPLOADING HUMAN BRAIN

They will be able to provide an interface with computer while we still reside in our biological

form. Nanobots could also carefully scan the structure of our brain, providing a complete readout of the connection. This information when entered into the computer could then continue to function as us. Thus the data stored in the entire brain will be uploaded into the computer.



NANOBOTS

EXAMPLE OF BLUE BRAIN

A very good example of utilization of blue brain is the case “short term memory”. For the above reason we need a blue brain. It is simple chip that can be installed into the human brain for which the short term memory and volatile memory at the old age can be avoided.

BLUE BRAIN PROJECT OBJECTIVES

The project will search for insights into the human beings and remember. Scientists think that blue brain could also help to cure the Parkinson’s disease. The brain circuitry is in a complex state of flux, the brain rewiring itself every moment of its existence. If the scientists can crack open the secret of how and why the brain does it, the knowledge could lead to new breed of super computers.

RESEARCH WORK

IBM developing the “BLUE BRAIN”. IBM in partnership with scientists at Switzerland’s evolve polytechnique federal de Lausanne’s brain and mind institute will begin simulating the brain’s biological systems.

HARDWARE AND SOFTWARE REQUIREMENT

- A Super computer
- Processor
- A very wide network
- Very powerful nanobots



HARDWARE AND SOFTWARE REQUIREMENTS

ADVANTAGES

- Remembering things without any effort.
- Making decision without the presence of a person.
- Using intelligence of a person after the death.
- Understanding the activities of animals and allowing the deaf to hear via direct nerve stimulation.

DISADVANTAGES

- We become dependent upon the computer.
- Others may use technical knowledge against us.
- A very costly procedure of regaining the memory back.

CONCLUSION

We will be able to transfer ourselves into computers at some points. It will bring both benefits and harm to human society.

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