

MIND READING COMPUTER TECHNOLOGY

¹C.Sunitha, ²V.Sivaranjani

¹MCA, M.Phil., ²M.Sc.SS(Pursuing)

Department of Software Systems,

Sri Krishna Arts and Science College, Coimbatore, India

Abstract : Modern technology has led to several new inventions to cater the growing needs of individuals. One amongst the leading inventions is that of mind reading pc. Mind reading may be a technique to read the mind state of alternative individual. This may be done by obtaining the facial features and by seeing his activity. Mind reading is often done by facial expression analysis and innovative band. Mind is an abstract entity that consists of sensations emotions, feelings, wishes and intentions. Mind reading is a way to discover or infer person's mental states. The technology is predicated on the power to scan human mind with use of computers. These computers analyse human brain to discover what it's attempting to convey. The paper deals with transient study of major aspects concerned in mind reading technology. It provides an efficient way to fix human mind and computers.

IndexTerms -Mind reading computer, man-machine interaction, mind blindness, facial expression, futuristic headband, neuroscience, mind controlled wheelchair.

I. INTRODUCTION

Mind reading system is coordination of human psychology and pc techniques. The power to attribute mental states to others from their behaviour and to use that information to guide our own action and predicts those of others is thought as theory of mind or mind reading. Although they take the initiative, they're usually misguided and easily frustrate the user. Mind reading PC is also outlined as a machine that infers the human being's mental states. Mind reading laptop uses varied Technologies, to inferring the thoughts of someone for instance by scanning the facial expressions at the side of head gestures and by distinguishing the amount and Oxygen level within the blood that is flowing within the vicinity of brain. We are able to say that in future we would have various technologies that may facilitate to inventing the mind reading pc. Science creates pc which will decipher your thoughts and place them into words. The understanding of human's thoughts is one in every of the foremost advanced tasks. The aim of a mind reading computer is to boost human-computer interaction through emphatic responses and to alter computers to initiate interactions with users. Mind reading by a computer will provides us several applications within the field of medical, crime and one's life additionally.

II. MIND READING AND NECESSITY OF MIND READING

Mind reading is also outlined as inferring of the human thoughts emotions and wishes, etc. The simplest technique of mind reading is by simple understanding the facial expression given by the individual as people express their mental states largely through facial expression and gesture. employing a digital video camera the mind reading computer system analyse a individual's facial expression in real time and infers that persons underlying psychological state.

Mind reading PC is outlined on observes the person's thoughts and emotions etc. The primary step of mind reading to grasp the facial expressions of the person ass human express their mental states largely by facial expressions and gestures .This doesn't matter they're communicating or not in truly a decision taken by the individual is to be fully rely on the mental states and the individual reacts in that way which affects the performance. The things that are to be happen i.e. to be solely as a result of thoughts. Suppose if we have mind reading pc then we can change the choice of anyone if its worst or any wrong intension we are able to prevent this and therefore the wrong intension will be turned into good intension.

By using the mind reading computer we are able to additionally stop the crimes. For instance we are able to recognize the metal state of a criminal and can change their mind therefore we do not need to give him penalty only a computer system is required consequently the world will be better than it is currently. But if we wish to alter the mind of a person according to our desire then it is impossible now. However in future this may also be possible. So Mind reading will be the essential step for that technology. Additionally just imagine we are currently in digital world we are in a generation with cell phones, cars and online services and all these System are capable to read our mind can retort accordingly. Mind reading pc will make our life so easy where only by just thinking we can do what we need and can control our system's process according to us. This system will be further valuable for handicapped and a paralyzed person. They can also operate the cell phones, can drive the cars, and can also use the online services only by just thinking. This system will develop the communication skills as well as social interaction. So the mind reading is largely needed for all things to be happened. Only a computer is required to give the penalty no need to anyone else.

III. HOW DOES IT WORK?

3.1 FUTURISTIC HEAD BAND

The system of it contains a head band that's recurring by send light emission to the tissues of the head wherever it's active. The band first measures the oxygen and then measures the blood around the people's brain that uses a technology known as Functional Near- Infrared Spectroscopy(FNIRS). The user who uses this mind contains a Futuristic Head Band.



fig 1: futuristic head band

3.2 WORKING PRINCIPLE

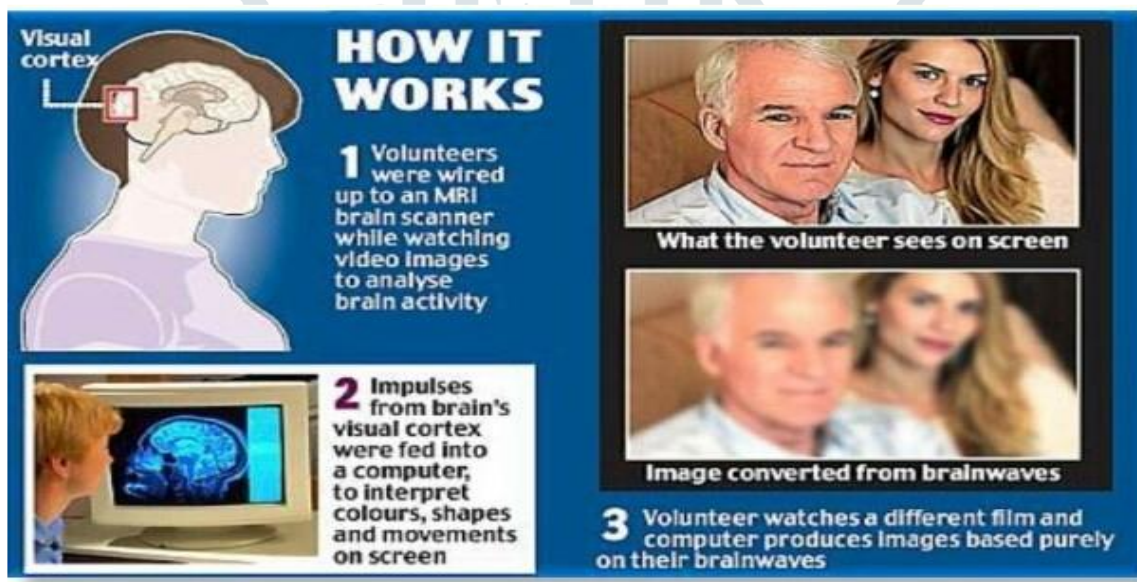


fig 2: working principle

3.3 NEUROSCIENCE

It deals with anatomy and standard biology of neurons. Neurons are a nerve cell that's essential building block of nervous system. Neurons are dedicated to transmit information throughout the body. It's done by measure the oxygen level of blood via FNIRS.



fig 3: neuroscience

3.4 EVALUATION OF RESULTS

FNIRS light weight head band sensors the non invasive experimental subjects of the equipments that users are asked to count the squares on the cube displayed on screen. Observations have been completed in NASA by mutely reading the spoken words and analyzing the nerves in mouth of user and conclusion by the throat measures. The measuring of all stress factors is normally done in a computer program which can be measured by users. The stress reasons include distractions, disruptions, perplexing and anger with or without the facial movements biological signals arise when reading or speaking.

IV. APPLICATIONS OF MIND READING COMPUTERS

Mind reading computer technology can be helpful for paralyze patients and handicapped person this can also be especially useful for comma patients who are to be unable to speak. For instance a model mind controlled wheelchair developed from the University of Electro Communications is Japan. This works by map the brain waves when you think about moving left, right, forward or back and work accordingly. This can be used in military purposes and in investigations.



fig 4: mind controlled wheelchair

V. ADVANTAGES

- It will read minds
- Useful for Paralytic patients
- It will facilitate Handicapped people
- It will facilitate Comma patients
- It will facilitate People who can't speak
- It will be used for Military purposes and Sting operations
- Can be united with consoles and used for mind gaming, robotics and stuff
- Eliminate the aptitude to lie.
- Mind reading computer will stop from terrorism.
- It will be combined with consoles and used for mind gaming.

VI. DISADVANTAGES

- Break in privacy
- If developed or used by sinners can be extremely dangerous
- No way to counterbalance this technology
- The confidential information will be hacked by unauthorized person
- Accuracy of information cannot be gained by using mind reading computers

VII. CONCLUSION

Mind reading is that the ability to infer people's status and use that to form sense and predict their behaviour. In this paper we tend to have a quick study relating to major aspects of mind reading techniques, applications, result, advantages, disadvantages, etc. IBM says that mind readings computers are not any longer from the world. Computer Scientist are biomedical engineers at Tufts University are collaborating to create this a reality someday soon. Thus, the mind reading technology can bring amusing changes in technical fields which is able to be rather more efficient and helpful. This paper describes however a user will read the mind of other person by using mind reading computer. In this mind reading computer technology present real time video is compared with previously installed video of facial expression which represents the mental state. Another way of detecting the mental state is to be done with the help of futuristic headband that sends Infrared light into head's tissues which absorbed the light.

REFERENCES

- [1] S.Baron-Cohen. How to build a baby that can read minds: Cognitive mechanisms in mindreading. Current Psychology of Cognition, 13(5):513–552, 1994.
- [2] M.Bartlett, G.Littlewort, B.Braathen, and T.Sejnowski. A prototype for automatic recognition of spontaneous facial actions. In Advances in Neural Information Processing Systems, volume 15, 2003.
- [3] <https://www.livescience.com/53535-computer-reads-thoughts-instantaneously.html>.
- [4] <https://www.seminaronly.com/Labels/Mind-Reading-Computer-Advantages.php>
- [5] <https://www.slideshare.net/salavathrenathi/mind-readingcomputer>.