

NEURALINK AND ITS APPLICATION

Today, technology revolution is helping people to create a lot of improvements for medical treatment of their bodies and their individual parts. Would you agree to have a surgery on your brain, which is supposed to give you an ability to control devices by your thoughts.

Everyone has already heard about Elon Mask, and there is no need to doubt his good intentions considering all that he has already created. Probably you have already guessed that it is about Neuralink, another Elon`s company.

Our brain receive and send information because of neurons – sells which are stimulated by electricity and transfer information by electric and chemical signals. Surgeries have shown that stimulating some parts of our brain can force to feel cold, warm or even make movements with your arm or leg.

But now imagine that limb was injured or even lost and connection (limb – brain) is not available. Neuralink was created to solve problems like that. Person will be able to learn how to use artificial arm with his mind as well as he uses his own one. Besides, it even can be possible to restore eyesight and hearing. I believe that you are wondering how it works.

There are surgeries today, during which brain is penetrated by electrodes that can scan neurons activity and send signal into computer. As a result, the person can perform simple action by his brain. Unfortunately these electrodes are quite large, so it is impossible to insert enough electrodes that can read activity accurately.

Neuralink has managed to improve this technology and made electrodes 25 times smaller than they used to be, while the signal has become much more powerful because of using gold as the material.

It's worth mentioning that people cannot see electrodes with their naked eye, so injection is provided by the machine and process is completely safe and painless and it is proven by the fact that surgery is made without narcosis.

There are already some surgeries had made on humanoid monkeys after which they learn how to use robotic arm in order to lift food for themselves.

And now imagine that this technology will be used not only for medical treatment, but for health improvement. Creating an interface (brain – computer) without need to use mouse and keyboard or (brain – smartphone) can provide advantages and save you time.

Moreover, while scanning your brain this technology can find diseases on their early stage which can help you to cure them when they are not a threat yet.

As far as learning languages is concerned, there are a lot of opportunities as well. For instance you can use this technology to recollect words that you cannot remember immediately without using dictionary or google translator. That practice can have both pros and cons depending on how you use it. In distant future we can even download a language library and use it while communicating since it will be connected to our neurons this process will happen immediately as if you have known this word or phrase. Just think about word in your native language and get it translated instantaneous.

To sum up, all those things above are only a small part what that technology can offer in future, so more and more wonders are ahead of us.

СПИСОК ЛІТЕРАТУРИ

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