NEUROPROSTHETICS

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Abstract:

The integration of human beings with computers tends to deepen on both physical and cognitive levels. As new technologies emerge, the daily routine of human existence adapts to incorporate these new advancements in experiencing and shape of reality. Thus, the neuroprosthetics can be defined as the series of devices which can substitute a motor-sensory or the cognitive modality that might have been damaged as the result of an injury or a long running disease. The basic principle is that the devices are used to generate an electric impulse-induced action potentials and thus it results in the process of producing a neuronal signal. The action potentials indicated here are nothing more than electric impulses generated during the connecting of electrical devices to the human nervous system, which has been a very lengthy process. We all know that not all neurological gadgets are electronic, therefore, the main and most crucial goal here is to assist the concerned patient in participating in his or her daily activities. Thus, it encompasses a wide range of artificial devices and systems used to enhance motor or sensory cognition, including visual and auditory defects. It also enhances defects that arise as a result of severe brain injuries or other health issues related to brain disorders. Today, we can say that several types of surgical brain implants have been tested to see if they can restore and regain some level of function in the person concerned, depending on the severity of the sensory disabilities. Researchers have been looking for a strategy to avoid the brain damage produced by a variety of illnesses or by any other means for decades. It assists us to overcome this problem. This lets diseased live normally. This therapy is widely used to help an individual enhance their quality of life.