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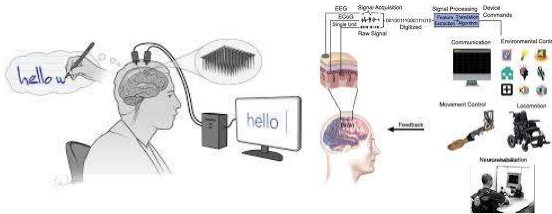
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NEURALINK-BRAIN MACHINE INTERFACE

Abstract

A Brain-Machine Interface (BMI) is a technology that connects the human brain directly with a computer or machine. It captures the brain's electrical signals using sensors and translates them into commands that machines can understand. This allows humans to control devices using their thoughts. Neuralink, founded by Elon Musk, is one of the most advanced Brain-Machine Interface projects. It uses ultra-thin, flexible threads (nanowires) implanted into the brain to record neural activity. These threads are inserted by a surgical robot with high precision. Neuralink devices are designed to work wirelessly with computers and smartphones. Key features and goals of Neuralink include: - Restoring movement for paralyzed patients. - Restoring vision to blind people. - Enhancing memory and cognitive functions. - Direct communication between humans and AI. - Augmenting human intelligence and overcoming neurological disorders.

Benefits

Brain-Machine Interfaces (BMIs) provide several important benefits in healthcare, technology, and human-computer interaction. In the medical field, they help paralyzed patients or amputees regain mobility by controlling prosthetic limbs, wheelchairs, or exoskeletons directly through brain signals. They also allow individuals with conditions such as ALS or locked-in syndrome to communicate using thought-controlled typing systems, and they play a vital role in