Brain Computer Interface(BCI) is an effective device for communication between users and systems.BCI is an integration of hardware and software systems to facilitate interaction between humans and their surroundings. BCI can provide a communication approach conveying brain information to the outside. BCI is collaboration between a brain and a device that enables signals from the brain to direct some external activity, such as control of a cursor or a prosthetic limb.

BCI technology is a recent advancement in neurosciences.BCI assist the functional recovery of stroke patients, which can improve the traditional treatment methods and more effectively help patients recover the injured motor function.

In this research, improved classification algorithms will be designed to identify motor imagery movements. Also, the performance of different filters will be tested.