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ABSTRACT

BCI-Operated Media Player is a mp3 player that can be controlled through a brain-computer interface (BCI). It has been designed for patients who are severely impaired and partially or completely locked in. They have lost all motor ability but have active brains. In our media player, we have created four controls that have been encoded as a combination of left-hand and right-hand movements. The OpenBCI device reads the input in the form of EEG signals from the patient's brain and then uses the same to control the media player. It is easily scalable to multiple controls through a binary-like combination.