



**RESEARCH ARTICLE**

# **“BEEG” The BCI...A Tech-Effort to Aid Disable People**

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*Abstract— Brain Computer Interface helps and enables people through their mental activities to perform applications and to operate devices. Now-a-days research in this field has matured through many prototypes like brain controlled wheel chairs, games etc. Based on this BCI must come out of the lab to the world and to be applied to real time applications. This makes us to focus on the development on life of countless disabled people. Suitable signal processing methods are developed by the scientists to improve the communication signals of BCI to identify the user brain reading and also command from electroencephalography. We developed a system named “BEEG” an EEG based Brain Computer Interface that will recognize the words thought and will result them on PC. Two main approaches are used in this BCI they are: recognition of EEG pattern approach according to different mental task and based on the self regulation of the EEG response operant conditioning approach is done. The components of BCI and EEG measurements are also presented.*

*Keywords— BCI; EEG; Microcontroller; Brain Signals; Electrodes; Thought Processing*

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