Abstract

Brain Computer Interface (BCI) enable paralyze peoples to interact and control their environment by defining the direct communication between human feelings (brain) and technological aspects (external device). The feature extraction and translation of commands in BCI are the critical tasks, which are the key of BCI system. Using the semantic method will enhance the both of these features. Nowadays ontology for representing knowledge is becoming more popular in researchers to describe, share and integrate their scientific data. If the information, algorithms and results are stored in the form of ontological content, it will provide the efficient way to use and reuse the data related to BCI and will help to BCI researchers for standardization. Adding semantic in BCI will also improve the efficiency of current BCI system.

References

- To operate robot only with brain, Advanced Telecommunications Research and Honda develop BMI base technology, Tech-on, 26 May 2006.
Index Terms

Computer Science  Bioinformatics

Keywords

Brain Computer Interface  Ontology  Semantic Method