

ABSTRACT

ELECTROENCEPHALOGRAM SIGNAL PREPROCESSING METHOD, SYSTEM AND TERMINAL DEVICE

Provided is an electroencephalogram (EEG) signal preprocessing method, system and terminal device. The method includes: receiving original EEG signals collected by an EEG collection device, data structure of the original EEG signals corresponds to pre-positioned EEG signal channel locations; performing artifact removal and noise removal operations on the collected original EEG signals to obtain pure EEG signals; obtaining event marks of the original EEG signals, dividing the pure EEG signals into multiple segments each containing EEG signals within preset length of time range before and after an event occurs; obtaining, for the segments, the preset analysis indicators to be extracted, performing time-domain analysis to extract time-domain analysis indicators, and performing frequency-domain analysis to extract frequency-domain analysis indicators. The technical solution can improve the processing efficiency of removing noise and artifacts from the original EEG data, thereby improving the quality of EEG data.

Figure 1