

Research on EEG signal recognition using artificial neural networks

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Abstract: This topic focuses on researching and developing an electroencephalogram (EEG) signal recognition system based on artificial neural networks. The context of the topic is built on the increasing demand in the medical and psychological science fields to support the diagnosis and management of brain-related disorders. The main objective is to build an EEG signal recognition system with high accuracy by using optimized artificial neural network models. The research method includes both experimental data analysis and practical application deployment to evaluate the system's effectiveness. The expected result is to provide an important support tool for doctors and researchers in diagnosing and treating brain disorders.

Keywords: Electroencephalogram (EEG), artificial neural network, signal recognition, electronic medicine, psychological science