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강연제목: 머신러닝을 활용한 뇌파 및 생체신호 분석

Machine learning approaches for EEG and biosignal analysis

Abstract:

Despite recent advancements in deep learning, applying deep learning algorithms to healthcare applications involving biosignals such as electroencephalography (EEG) presents notable challanges. Key limitations stem from 1) the small size of available datasets with class imbalances, resulting from device- or subject- variability and difficulties in data annotation, and 2) the lack of interpretability in model predictions. To address these issues, it is crucial to design appropriate model architectures based on a deep understanding of the unique characteristics of biosignals. This presentation explores various studies that employ machine learning and deep learning techniques for biosignal analysis, with a focus on EEG-based prediction of neuropsychological disease.

Brief Biosketch

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