

Quantitative assessment of human functional behavior based on neurophysiological signals

Neurophysiological signals such as EEG, ECG, EMG, GSR, etc. are an important key to understand human functional behavior. Whether it is a patient in need of rehabilitation or a healthy person in need of enhanced ability, the correlation between functional behavior and objective signals can be established by means of measuring the neurophysiological electrical signals related to the event. Utilizing statistical methods or machine learning algorithm, the neurophysiological mechanism behind human functional behavior can be explored, resulting in a magnificent theoretical method and engineering technology foundation laid for evaluation, prediction, rehabilitation, and even improvement of human performance.

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