

عنوان مقاله:

Detecting Huntington Patient Using Chaotic Features of Gait Time Series

محل انتشار:

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خلاصه مقاله:

Huntington's disease (HD) is a congenital, progressive, neurodegenerative disorder characterized by cognitive, motor, and psychological disorders. Clinical diagnosis of HD relies on the manifestation of movement abnormalities. In this study, we introduce a mathematical method for HD detection using step spacing. We used ۱۶ walking signals as control and ۲۰ walking signals as HD. We took a step back from the walking distance signals. Then, using fractal dimensions and statistical features, the control was classified and HD and ۹۷.۲۲% accuracy were obtained.

کلمات کلیدی:

HD, Gait signal, Stride time interval, fractal dimension, Statistical features

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