

ABSTRACT

The present disclosure relates to an HRV-data preprocessing method and apparatus, and an electronic device. The method includes: obtaining HRV data corresponding to a sliding window; determining a variance of a plurality of target peaks corresponding to the HRV data, and determining HRV data having the variance that falls within a predetermined variance range as first target HRV data; determining an RR interval sequence of the first target HRV data based on the plurality of target peaks, determining whether each RR interval in the RR interval sequence falls within a predetermined heartbeat time interval range, and determining second target HRV data; and extracting a time-domain feature, a frequency-domain feature, and a nonlinear feature of the second target HRV data. By filtering out abnormal data twice, the second target HRV data with high accuracy and in line with a human heartbeat characteristic is obtained, enabling an extraction of precise HRV features.

FIG. 1