

عنوان مقاله:

How Health Related to Quality of Sleep and Breathing: How to Associate Sleep Disorder Breathing and Extracted Respiratory Signal

محل انتشار:

بیست و یکمین کنفرانس مهندسی برق ایران (سال: 1392)

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خلاصه مقاله:

Sleeping is an important part of human's life because of its state of unconsciousness and relaxation. According to today's common problems, such as increased risks of social, economic and healthcare, disturbances or interruptions in breathing pattern may occur during sleep or it may bediscontinued that knows as Sleep Disorders Breath(SDB). Thus, the researchers used an abnormal breathing pattern and characteristics of sleep to detect disorder and help thesepatients. In this way without any extra equipment, using ECGDerived Respiration from Electrocardiogram can be a noninvasive, low-cost measurement of respiration wave. In this research, three major methods reinvestigate and the accurate method with the accuracy of 0.9 selected. EDR can be classified by a linear discriminate classification to normal or abnormal (apnea) epoch. In conclusion part, three methods were compared and by selecting the more accurate one, EDR epoch were classified by more than 79.66% accuracy

كلمات كليدي:

Electrocardiogram (ECG), ECG-Derived Respiration (EDR), Respiratory Rate, Sequential Feature Selection, Sleep **Disorders Breath**

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