Classification of Infant Sleep/Wake States: Cross-Attention among Large Scale Pretrained Transformer Networks using Audio, ECG, and IMU Data

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the importance of infant sleep to development, automated and unobtrusive monitoring of sleep is critical. Thus, we focus on the task of sleep/wake classification in this study.

Laboratory-based polysomnography (PSG) is the goldstandard sleep assessment for adults and infants alike [18], [19]. However, given the high level of burden and expense of laboratory PSG, researchers have used wearable devices for sleep monitoring [20]. Notably, past studies of sleep/wake classification using wearable devices typically extract sleep features from single-modality data. For example, with actigraphy data, [21] carried out extensive studies on adult sleep/wake



Fig. 1. LittleBeats (center) is capable of collecting audio, ECG, and IMU data. Reproduced with permission from [17].

classification using traditional signal processing methods, classic machine learning methods, and several deep learning methods. Electrocardiogram (ECG) signals are also often used because stable QRS complex and longer R peak period can indicate sleep stages [22]. Studies such as [23] used ECG data to classify adult sleep/wake with a 5-layer convolutional neural network (CNN) concatenated with 2 fully connected (FC) layers. A signal-processing-based approach was suggested by [24], where audio recordings of adults' respiratory sounds were used to estimate sleep/wake likelihood from signal level features such as autocorrelation. All published studies of automatic sleep/wake classification use different datasets, therefore their accuracies are not strictly comparable, but the accuracies reported in all four of these studies are between 81%

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