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An accurate sleep stages classification system using a new class of optimally time-frequency localized three-band wavelet filter bank

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Highlights

- A novel three-band time-frequency localized (TBTFL) wavelet filter bank (FB) for analysis of sleep-stage EEG signals.
- A new Single-channel EEG based automated sleep scoring system.
- A large population dataset is used for six multiple-class classification problems.
- The model surpasses all existing models.

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