

Peer Review

Review of: "The Hypno-PC: Uncovering Sleep Dynamics Through Principal Component Analysis and Hidden Markov Modelling of Electrophysiological Signals"

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This is a well-written manuscript with significant novelty, uncovering sleep stages through PCA and GHMM. A few minor comments before acceptance:

1. What is the dimension of the EEG data and feature vector? After every processing step, how is the dimensionality changing? This detail should also be incorporated.
2. Statistical analysis and the minimal supervision for label assignment section should be discussed again in detail for better understanding.
3. Some information is repeating in the methods and results sections. Repeating information should be removed, for example: the GHMM and minimal supervision and agreement with labels section and abbreviations.
4. Is it possible to plot filter maps as shown in Fig. 2 for uncovered hidden states?

Declarations

Potential competing interests: No potential competing interests to declare.