

## Review of: "EEG-based Emotion Classification using Deep Learning: Approaches, Trends and Bibliometrics"

Sohaib R. Awad

Potential competing interests: No potential competing interests to declare.

My conclusion is as follows:

Every category of techniques should feature a clear definition, a high-level yet comprehensive explanation of their functionality, and an evaluation of their performance. The paper's list overlooks key elements, particularly in the attention method category, with explanations that are somewhat lacking and performance assessments based on custom implementations rather than state-of-the-art benchmarks. It would be beneficial to outline the criteria used to select the state-of-the-art methods discussed in this paper.

Over the past two years, transformers have gained prominence in computer vision, including proposed transformer-based methods for emotion recognition. The authors should engage with significant works such as "Understanding Deep Learning Techniques for Recognition of Human Emotions Using Facial Expressions: A Comprehensive Survey" and "An EEG Database and Its Initial Benchmark Emotion Classification Performance" in their discussion.

Qeios ID: FJ9STH · https://doi.org/10.32388/FJ9STH