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

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Potential competing interests: No potential competing interests to declare.

My comments are the following:

1. A survey article is a carefully structured list of the best performing method families for a given field. For each family of methods, it should include a clear definition of what they are, how they work (high-level explanation but yet explanation), and their performances. The list made in the paper misses some important elements (especially the attention method family), the explanations provided are slightly insufficient, and the performance reports are not helpful because they are based on custom implementation results rather than state-of-the-art.
2. It would be good to mention the selection criteria for the state-of-the-art methods described in this paper.
3. In the last two years, the transformer has flourished in the field of computer vision, and there are also some proposed transformer-based emotion recognition methods.
4. The authors should discuss some important papers: **Understanding Deep Learning Techniques for Recognition of Human Emotions Using Facial Expressions: A Comprehensive Survey,** An EEG Database and Its Initial Benchmark Emotion Classification Performance