

## Peer Review

# Review of: "STEAM-EEG: Spatiotemporal EEG Analysis with Markov Transfer Fields and Attentive CNNs"

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To improve the manuscript, consider expanding the evaluation to include clinically relevant EEG datasets or datasets with real-world noise and variability to demonstrate the framework's robustness in practical applications. Integrate comparisons with recent state-of-the-art models, such as transformer-based architectures, to validate the framework's advancements further. Address computational efficiency by providing benchmarks for processing time and resource usage, particularly for real-time applications. The cross-channel split attention mechanism, which shows only a marginal performance gain, could be refined or better justified through additional analyses highlighting its unique contributions. Figure 1 is misplaced in the current manuscript, the best way to address this is to relocate it to a section where it directly complements the corresponding discussion. Test the generalizability of the framework. <sup>[1]</sup>

## References

- <sup>1</sup>. <sup>^</sup>Muhammad Asif, Surayya Naz, Faheem Ali, Amerah Alabrah, et al. (2024). Advanced Zero-Shot Learning (AZSL) Framework for Secure Model Generalization in Federated Learning. *IEEE Access*, vol. 12, 184393–184407. doi:10.1109/access.2024.3510756.

## Declarations

**Potential competing interests:** No potential competing interests to declare.