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| Journal Name: | [**Asian Journal of Medical Principles and Clinical Practice**](https://journalajmpcp.com/index.php/AJMPCP) |
| Manuscript Number: | **Ms\_AJMPCP\_136805** |
| Title of the Manuscript: | **Advances in Brain-Computer Interfaces for Neurological and Mental Health Applications** |
| Type of the Article | **Research (Conceptual)** |

PART 1: Comments

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|  | **Reviewer’s comment****Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | It is noted that remarkable advancements have been made in the Brain-Computer Intferface (BCI) technology in the past few years and more so during this decade with advancement also made in AI. As a result, this astronomical technological breakthrough has also significantly been enhancing its potential to assist individuals with neurological impairments and revolutionize human-computer interaction. This is certainly a noteworthy paper to be considered for possible inclusion in this journal. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | Yes, the title is appropriate for this paper. |  |
| **Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.** | Yes, the abstract is well written with its key focus that is aligned with the entire thematic flow of the paper. |  |
| **Is the manuscript scientifically, correct? Please write here.** | Yes, it is, except that 50% of the citations are most current or recent (2021-2025). The author(s) may want to cite more recently published papers not more than 5 years ago. This is just a suggestion. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention****them in the review form.** | As mentioned about, 50% of the references are cited from within the last 5 years of publication. It is good if the author(s) can increase the percentage of recent citations to replace those that are slightly dated unless no currentupdates are available. |  |

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| **Is the language/English quality of the article suitable for scholarly communications?** | Yes, good command of written English that allows ease of reading without too much of technical jargons. |  |
| **Optional/General** comments | In the overall, this paper is worthy of publication and will benefit readers in the same field on the application of BCI technology in medical reasearch and implementation.**Some optional suggestions for the author(s):*** The author(s) claimed that “enhancement of input signal quality by high-density minimally invasive electrode implantation” and “application of an unsupervised deep learning algorithm in brain intention recognition” present specific technical advancements. However, their claims should be backed by recent peer-reviewed studies or authoritative sources. Please cite recent studies.
* In addition, the author(s) also discussed about the BCI applications in treating neurological disorders (e.g., Alzheimer's, Parkinson's) and mental health conditions (e.g., depression, PTSD). However, they need to reference each of the issues raised with appropriate studies or clinical trials to substantiate their claims. That will help to make the paper more academically robust.
* Also, in their mention of BCI-based neurofeedback systems (i.e., in managing neurological and psychological disorders), these ought to be backed with citations of relevant clinical studies or research papers to show their efficacy, respectively.
* The author(s) has/have provided some informative description of BCI systems, by outlining their classification, their operational mechanisms, as well as theirnd components. There remain several areas where the author(s) may want to provide proper citation and acknowledgment of sources that are crucial.
* A good well-drawn conclusion at the end of the paper.
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PART 2:

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|  | **Reviewer’s comment** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewer Details:**

**Kok Hwee Chia, Singapore**