

# Review of: "Solving the naming ambiguity of auditory localization mechanisms: HRTF & HRSL, and ILD, ITD, IPD"

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Potential competing interests: No potential competing interests to declare.

## **This paper conducted (Solving the naming ambiguity of auditory localization mechanisms: HRTF & HRSL, and ILD, ITD, IPD)**

The authors in this paper, aims to establish unambiguous names for auditory localization mechanisms. Auditory localization relies on neural mechanisms processing information based on physical sound features. One key mechanism in three-dimensional auditory localization is the Head-Related Transfer Function (HRTF). However, this name (HRTF) is currently used for two distinct mechanisms, leading to ambiguity

## **The Authors should be taken into account the following points**

1. One potential disadvantage of solving the naming ambiguity of auditory localization mechanisms, specifically for Head-Related Transfer Functions (HRTF), Head-Related Sound Levels (HRSL), Interaural Level Differences (ILD), Interaural Time Differences (ITD), and Interaural Phase Differences (IPD), is the potential for confusion and inconsistency in the field of auditory research and technology.
2. When attempting to standardize or clarify the naming conventions for these auditory localization mechanisms, there may be debates and disagreements among researchers and experts on which terminology to adopt. This could lead to multiple competing naming conventions being used in different studies and applications, making it challenging to compare and consolidate research findings.
3. Additionally, if the naming conventions change or evolve over time, it may create a disconnect between older and newer research, making it harder to build upon existing knowledge and establish a coherent body of literature.
4. Moreover, established terminologies may be deeply ingrained in the field and widely recognized, and any attempts to introduce new names could face resistance and slow adoption. This could result in a fragmented use of terms, leading to confusion among researchers, educators, and industry professionals.

## **.Could you please explain how you deals with these challenge**

In addition to the above points, the points need to fix

1. The authors need to clarify the novel contributions of the research.
2. The objective of the paper should be evident in the abstract and should add the better result of this study
3. The article has many English language issues that need fixing; therefore, proofreading is required

4. Lots of redundant information is there. And these can be avoided, especially in the background and related works.
5. I noticed several typos throughout the manuscript, including misspelt words and incorrect punctuation, which should be revised; therefore, proofreading is required
6. Long sentences are used in many places. To improve readability, the author can use short, formal, and effective sentences. Look care on these aspects
7. Please check your whole reference list carefully to ensure ALL citations are directly relevant to the specific topic of the manuscript