

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

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The paper titled "Solving the Naming Ambiguity of Auditory Localization Mechanisms: HRTF & HRSL, and ILD, ITD, IPD" addresses an important issue in the field of auditory localization. The abstract provides a clear and concise overview of the problem, highlighting the confusion caused by using the same name (HRTF) for two distinct mechanisms. The authors propose a solution to this naming ambiguity, which involves differentiating between a technological sound processing mechanism and a perceptual mechanism.

The proposal to retain the name "Head Related Transfer Function" (HRTF) for the technological mechanism responsible for artificial manipulation of sound is well-reasoned and sensible. It maintains consistency with the established terminology and helps avoid confusion in technical discussions and applications like headphone-based sound reproduction.

The introduction of the new proposed name "Head Reflected Sound Localization" (HRSL) for the perceptual mechanism is an appropriate choice. The authors justify their decision by emphasizing the structural continuity with the previous name, while also providing a more descriptive term that clarifies the nature of the perceptual mechanism involved in 3D sound localization. The paper's content is well-organized, but the confusion does not appear to be prevalent in the literature, and other references should be given in order to support the proposed solution.

In terms of clarity, the paper does an excellent job of explaining the technical concepts in a manner that should be accessible to both experts and non-experts in the field of auditory localization. However, some sections might benefit from additional examples or illustrations to enhance comprehension also with more references.