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Uncovering jingle and jangle fallacies: A systematic review

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Jingle and jangle fallacies arise from unclear connections between theory and empirical studies. In jingle fallacies, different phenomena are given the same name, whereas jangle fallacies occur when the same phenomenon is given different names. This problem has only been increasingly studied in recent years, although these fallacies have been known since Thorndike and Kelley. Examples of jingle-jangle fallacies that have already been investigated include studies on self-concept, identity, mindfulness, empathy, and trait theory approaches in personality research. To date, there is no formal procedure for recognizing these fallacies; they are investigated using various methods and approaches. In order to gain a better overview of current analytical strategies and approaches, we are conducting a systematic review according to the PRISMA guidelines. Our review aims to provide a comprehensive overview of strategies for investigating jingle-jangle fallacies. In the review, we focus on: concepts and constructs examined, methodological approaches, findings of overlap or ambiguity, and authors' conclusions. This outline may be adapted based on our findings. Through this analysis, we aim to improve the understanding and detection of jingle and jangle errors in research and propose measures to mitigate these errors.

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