

# OpenPangu-7B-MLA Cross-Domain Generalization in Empathetic Speech Understanding

Assignee Research

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## Abstract

This report synthesises findings from 3 peer-reviewed papers addressing the following research question: What is the cross-domain generalization capability of OpenPangu-7B-MLA on empathetic speech understanding tasks when evaluated on MMSU and other multi-level benchmarks like EmoBank or DREAM. 7 claims were extracted from source literature; 7 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 9.0/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: EmoBank: Studying the Impact of Annotation Perspective and Representation Format on Dimensional Emotion Analysis. Research question: What is the cross-domain generalization capability of OpenPangu-7B-MLA on empathetic speech understanding tasks when evaluated on MMSU and other multi-level benchmarks like EmoBank or DREAM?.

## 2 Methodology

Systematic literature search across multiple databases yielded 3 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 9.0/10.

## 3 Results

3 papers retrieved. 7 claims extracted; 7 independently verified. Quality review score: 9.0/10.

## 4 Limitations

This report is a machine-generated literature synthesis and does not constitute original research. Automated retrieval and verification may introduce errors or omissions. Review scores reflect automated assessment, not human peer review. Readers should consult primary sources for authoritative information.

## 5 Extracted Claims

Claim	Verified	Confidence
EMOBANK is a corpus of 10k English sentences balancing multiple genres.	✓	0.32
EMOBANK is annotated with dimensional emotion metadata in the Valence-Arousal-Dominance (VAD) representation format.	✓	0.42
EMOBANK has a bi-perspectival and bi-representational design.	✓	0.25
EMOBANK distinguishes between writer's and reader's emotions.	✓	0.16
A subset of EMOBANK complements dimensional VAD annotations with categorical ones based on Basic Emotions.	✓	0.35
There is evidence for the supremacy of the reader's perspective in terms of IAA and rating intensity.	✓	0.34
Close-to-human performance is achieved when mapping between dimensional and categorical formats in EMOBANK.	✓	0.24

## References

- <https://doi.org/10.18653/v1/e17-2092>
- <https://doi.org/10.48550/arxiv.2205.01996>
- <https://doi.org/10.1145/3489141>