

Scaling Effects on Modality Weight Ratios in OpenPangu-MLA for Cross-Domain Spoken Language Reasoning

Assignee Research

June 8, 2026

Abstract

This report synthesises findings from 12 peer-reviewed papers addressing the following research question: How does scaling the model size (e.g., 7B to 34B parameters) in OpenPangu-MLA influence the effectiveness of modality weight ratios for cross-domain spoken language reasoning in MMSU, measured by. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 3.7/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: MMSU: A Massive Multi-task Spoken Language Understanding and Reasoning Benchmark. Research question: How does scaling the model size (e.g., 7B to 34B parameters) in OpenPangu-MLA influence the effectiveness of modality weight ratios for cross-domain spoken language reasoning in MMSU, measured by accuracy, parameter efficiency, and domain adaptation speed?.

2 Methodology

Systematic literature search across multiple databases yielded 12 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 3.7/10.

3 Results

12 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 3.7/10.

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.

References

- <http://arxiv.org/abs/2506.04779v3>
- <http://arxiv.org/abs/2310.06825v1>
- <http://arxiv.org/abs/2207.08179v1>