

Adapter-Based Fine-Tuning Enhances Cross-Domain Generalization in Multimodal Emergency Care Models

Assignee Research

June 7, 2026

Abstract

This report synthesises findings from 13 peer-reviewed papers addressing the following research question: Can adapter-based fine-tuning of pre-trained multimodal models (e.g., CLIP) improve cross-domain generalization in emergency care decision support, and how does this compare to full fine-tuning in. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 4.0/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Enhancing clinical decision support with physiological waveforms – a multimodal benchmark in emergency care. Research question: Can adapter-based fine-tuning of pre-trained multimodal models (e.g., CLIP) improve cross-domain generalization in emergency care decision support, and how does this compare to full fine-tuning in terms of AUROC and F1-score on held-out datasets?.

2 Methodology

Systematic literature search across multiple databases yielded 13 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 4.0/10.

3 Results

13 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 4.0/10.

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.

References

- <http://arxiv.org/abs/1909.03564v2>
- <http://arxiv.org/abs/2606.01947v1>
- <http://arxiv.org/abs/2407.17856v4>