

Auxiliary Reconstruction Losses Enhance Temporal Reasoning in Frozen Video Representations

Assignee Research

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Abstract

This report synthesises findings from 9 peer-reviewed papers addressing the following research question: What is the impact of auxiliary reconstruction losses on the temporal reasoning capabilities of frozen video representations when evaluated on long-form video understanding benchmarks. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 3.3/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: V-STaR: Benchmarking Video-LLMs on Video Spatio-Temporal Reasoning. Research question: What is the impact of auxiliary reconstruction losses on the temporal reasoning capabilities of frozen video representations when evaluated on long-form video understanding benchmarks?.

2 Methodology

Systematic literature search across multiple databases yielded 9 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 3.3/10.

3 Results

9 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 3.3/10.

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/2410.09380v1>
- <http://arxiv.org/abs/2504.02259v3>
- <http://arxiv.org/abs/2503.11495v1>