

InternVL3-38B Robustness to Adversarial Perturbations in Visual Mathematical Reasoning

Assignee Research

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Abstract

This report synthesises findings from 15 peer-reviewed papers addressing the following research question: How robust is InternVL3-38B to adversarial perturbations in visual mathematical reasoning tasks, as evaluated by accuracy degradation on perturbed GSM8K-V images compared to clean inputs. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 6.5/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: On the Reliability of Vision-Language Models Under Adversarial Frequency-Domain Perturbations. Research question: How robust is InternVL3-38B to adversarial perturbations in visual mathematical reasoning tasks, as evaluated by accuracy degradation on perturbed GSM8K-V images compared to clean inputs?.

2 Methodology

Systematic literature search across multiple databases yielded 15 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 6.5/10.

3 Results

15 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 6.5/10.

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/2306.09265v1>
- <http://arxiv.org/abs/2509.25160v1>
- <http://arxiv.org/abs/2507.22398v3>