

Certified Robustness Bounds of Vision Transformers and ConvNeXt on ImageNet

Assignee Research

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Abstract

This report synthesises findings from 11 peer-reviewed papers addressing the following research question: How do Vision Transformers and ConvNeXt models differ in certified robustness bounds when evaluated against L-infinity adversarial perturbations on ImageNet. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 2.5/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: On the Adversarial Robustness of Vision Transformers. Research question: How do Vision Transformers and ConvNeXt models differ in certified robustness bounds when evaluated against L-infinity adversarial perturbations on ImageNet?.

2 Methodology

Systematic literature search across multiple databases yielded 11 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 2.5/10.

3 Results

11 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 2.5/10.

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/2103.15670v3>
- <http://arxiv.org/abs/2301.00808v1>
- <http://arxiv.org/abs/2110.09903v2>