

# Vision Transformers and ConvNeXt Adversarial Robustness under L2-Norm PGD Attacks

Assignee Research

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## Abstract

This report synthesises findings from 13 peer-reviewed papers addressing the following research question: How do Vision Transformers compare to ConvNeXt in terms of adversarial robustness against L2-norm perturbations on ImageNet when evaluated with PGD attacks. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 5.2/10. 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 compare to ConvNeXt in terms of adversarial robustness against L2-norm perturbations on ImageNet when evaluated with PGD attacks?.

## 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 5.2/10.

## 3 Results

13 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 5.2/10.

## 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/2208.09602v2>
- <http://arxiv.org/abs/2103.15670v3>
- <http://arxiv.org/abs/2412.11168v3>