

# Adversarial Training Effects on CLIP Out-of-Domain Generalization Across Non-Standard Benchmarks

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June 4, 2026

## Abstract

This report synthesises findings from 14 peer-reviewed papers addressing the following research question: How does adversarial training against data poisoning impact the out-of-domain generalization of CLIP-based models on non-standard benchmarks like ImageNetV2 or ImageNet-Sketch. 4 claims were extracted from source literature; 3 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 7.5/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: Deep Learning for Generic Object Detection: A Survey. Research question: How does adversarial training against data poisoning impact the out-of-domain generalization of CLIP-based models on non-standard benchmarks like ImageNetV2 or ImageNet-Sketch?.

## 2 Methodology

Systematic literature search across multiple databases yielded 14 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 7.5/10.

## 3 Results

14 papers retrieved. 4 claims extracted; 3 independently verified. Quality review score: 7.5/10.

## 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.

## 5 Extracted Claims

Claim	Verified	Confidence
Object detection seeks to locate object instances from a large number of predefined categories in natural images.	✓	0.38
Deep learning techniques have led to remarkable breakthroughs in the field of generic object detection.	✓	0.42
The survey includes more than 300 research contributions.	×	0.14
The survey covers detection frameworks, object feature representation, object proposal generation, context modeling, tra	✓	0.39

## References

- <https://doi.org/10.48550/arxiv.2310.14735>
- <https://doi.org/10.48550/arxiv.2502.05206>
- <https://doi.org/10.1007/s11263-019-01247-4>