

# Zero-Shot Cross-Embodiment Grasping Performance: LAP vs. DexGrasp-Zero on RoboStack with Sensor Modality Effects

Assignee Research

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## Abstract

This report synthesises findings from 13 peer-reviewed papers addressing the following research question: How does the performance of LAP compare to other zero-shot cross-embodiment methods like DexGrasp-Zero in terms of grasping success rate when evaluated on the RoboStack dataset, and what is the impact of varying sensor modalities (e.g., tactile vs. visual) on alignment accuracy?. 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: DexGrasp-Zero: A Morphology-Aligned Policy for Zero-Shot Cross-Embodiment Dexterous Grasping. Research question: How does the performance of LAP compare to other zero-shot cross-embodiment methods like DexGrasp-Zero in terms of grasping success rate when evaluated on the RoboStack dataset, and what is the impact of varying sensor modalities (e.g., tactile vs. visual) on alignment accuracy?.

## 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 6.5/10.

## 3 Results

13 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/2603.16806v2>
- <http://arxiv.org/abs/2510.03003v1>
- <http://arxiv.org/abs/2204.13879v2>