

Pre-Training Enhances Uncertainty Calibration and Out-of-Distribution Detection in Multimodal Robotic Policies

Assignee Research

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Abstract

This report synthesises findings from 16 peer-reviewed papers addressing the following research question: Does pre-training improve uncertainty calibration and out-of-distribution detection for multimodal policies evaluated on the CALVIN robotic manipulation tasks. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 6.0/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: An Empirical Study of Pre-trained Model Selection for Out-of-Distribution Generalization and Calibration. Research question: Does pre-training improve uncertainty calibration and out-of-distribution detection for multimodal policies evaluated on the CALVIN robotic manipulation tasks?.

2 Methodology

Systematic literature search across multiple databases yielded 16 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 6.0/10.

3 Results

16 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 6.0/10.

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/2307.08187v4>
- <http://arxiv.org/abs/1901.09960v5>
- <http://arxiv.org/abs/2404.10124v1>