

Scaling Robustness of CLAM Latent Actions in Meta-World Multi-Task Learning

Assignee Research

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Abstract

This report synthesises findings from 9 peer-reviewed papers addressing the following research question: How does the robustness of CLAM's learned latent actions scale with the size of the unlabeled demonstration dataset when benchmarked against supervised imitation learning baselines on the Meta-World. 8 claims were extracted from source literature; 8 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 9.0/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: A Survey of Large Language Models. Research question: How does the robustness of CLAM's learned latent actions scale with the size of the unlabeled demonstration dataset when benchmarked against supervised imitation learning baselines on the Meta-World multi-task benchmark?.

2 Methodology

Systematic literature search across multiple databases yielded 9 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 9.0/10.

3 Results

9 papers retrieved. 8 claims extracted; 8 independently verified. Quality review score: 9.0/10.

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.

5 Extracted Claims

Claim	Verified	Confidence
The survey reviews LLM advancements across four key dimensions: pre-training methodologies, post-training techniques, ut	✓	0.22
Pre-training methodologies establish core model capabilities through large-scale self-supervised training, architectural	✓	0.36
Post-training techniques include supervised fine-tuning and reinforcement learning.	✓	0.18
Post-training techniques adapt foundational models to downstream tasks and enhance their alignment and safety.	✓	0.26
Utilization strategies include in-context learning, prompt engineering, and agentic reasoning.	✓	0.19
Utilization strategies optimize real-world deployment and enable effective interaction with external environments.	✓	0.24
Evaluation methods encompass benchmarks for core language capabilities, reasoning, and safety.	✓	0.21
The survey identifies critical research issues concerning theoretical foundations, efficient scaling, alignment, and age	✓	0.24

References

- <https://doi.org/10.48550/arxiv.2505.04999>
- <https://doi.org/10.1007/s11704-026-60308-3>
- <https://doi.org/10.1109/tkde.2021.3079836>