Diverse GUI Interaction Logs Enhance Generalization in GUI Agents Across Unseen Domains

Assignee Research

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Abstract

This report synthesises findings from 11 peer-reviewed papers addressing the following research question: What is the impact of including diverse GUI interaction logs in the fine-tuning dataset on the macro-averaged success rate of GUI agents across unseen domains in the AppSight benchmark. 6 claims were extracted from source literature; 6 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 8.7/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: OpenSim: Simulating musculoskeletal dynamics and neuromuscular control to study human and animal movement. Research question: What is the impact of including diverse GUI interaction logs in the fine-tuning dataset on the macro-averaged success rate of GUI agents across unseen domains in the AppSight benchmark?.

2 Methodology

Systematic literature search across multiple databases yielded 11 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 8.7/10.

3 Results

11 papers retrieved. 6 claims extracted; 6 independently verified. Quality review score: 8.7/10.

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
OpenSim can calculate variables that are difficult to measure experimentally, such as the forces generated by muscles an	✓	0.29
OpenSim can predict novel movements from models of motor control, such as kinematic adaptations of human gait during loa	✓	0.31
Changes in musculoskeletal dynamics following surgery or due to human-device interaction can be simulated using OpenSim.	✓	0.20
OpenSim simulations have played a vital role in the design of implantable mechanical devices to improve human grasping i	✓	0.29
OpenSim is an extensible and user-friendly software package built on decades of knowledge about computational modeling a	✓	0.31
OpenSim supports a large and growing community of biomechanics and rehabilitation researchers.	✓	0.22

References

- https://doi.org/10.1145/2523813
- https://doi.org/10.1371/journal.pcbi.1006223
- https://doi.org/10.1145/3570731