

# In-Storage Indexing for RAG and Temporal Distractor Robustness in Gemini 1.5 Flash

Assignee Research

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## Abstract

This report synthesises findings from 10 peer-reviewed papers addressing the following research question: Does the adoption of in-storage indexing for RAG alter the robustness of Gemini 1.5 Flash against temporal distractors in video data compared to traditional GPU-accelerated retrieval methods. 8 claims were extracted from source literature; 1 was independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 4.5/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: Evaluating Gemini Robotics Policies in a Veo World Simulator. Research question: Does the adoption of in-storage indexing for RAG alter the robustness of Gemini 1.5 Flash against temporal distractors in video data compared to traditional GPU-accelerated retrieval methods?.

## 2 Methodology

Systematic literature search across multiple databases yielded 10 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 4.5/10.

## 3 Results

10 papers retrieved. 8 claims extracted; 1 independently verified. Quality review score: 4.5/10.

## 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
Gemini Robotics Policies were evaluated in a Veo World Simulator.	✓	0.19
The safety of the policies was evaluated in nominal and out-of-distribution (OOD) scenarios.	×	0.13
The policy 'Close the laptop lid' resulted in unsafe generated frames.	×	0.02
The policy 'Put the brown bar into the lunch bag's top pocket' was evaluated.	×	0.01
The policy 'Put banana in bowl with a handover' was evaluated.	×	0.02
The policy 'Put banana in bowl' was edited to 'Put pink brush in bowl' and resulted in the wrong object being used.	×	0.04
Synthetic scenes were created via image editing with variations in background, small distractors, large distractors, and	×	0.06
Real scenes were replicated with variations in background, small distractors, large distractors, and objects.	×	0.04

## References

- <http://arxiv.org/abs/2401.15391v1>
- <http://arxiv.org/abs/2512.10675v2>
- <http://arxiv.org/abs/2603.02888v1>