# Iterative Retrieval-Generation Synergy Scalability in RAG vs Traditional Retrieval Methods

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**Abstract**

This report synthesises findings from 10 peer-reviewed papers addressing the following research question: How does the scalability of iterative retrieval-generation synergy in RAG systems compare to traditional retrieval methods across different domain-specific QA benchmarks (e.g., TriviaQA, ELI5),. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 3.2/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: Tree of Reviews: A Tree-based Dynamic Iterative Retrieval Framework for Multi-hop Question Answering. Research question: How does the scalability of iterative retrieval-generation synergy in RAG systems compare to traditional retrieval methods across different domain-specific QA benchmarks (e.g., TriviaQA, ELI5), measuring both computational overhead and accuracy gains?.

## 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 3.2/10.

## 3 Results

10 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 3.2/10.

## 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/2510.25621v1
- http://arxiv.org/abs/2507.23334v2
- http://arxiv.org/abs/2404.14464v1