

## Peer Review

# Review of: "GeAR: Generation Augmented Retrieval"

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The method proposed in this paper aims to retrieve relevant documents and locate fine-grained information units (such as sentences) while generating auxiliary information to interpret the results.

This method is suitable for information retrieval approaches and has produced good results in its experimentation, which remains limited.

## Benefits:

- Precise location of information in complex documents.
- Generation of relevant information for interpreting results.
- Computational efficiency of bi-encoders.

## Limitations:

- Very limited experimental context
- Limited number of tokens (512)
- Test scenarios: simple and non-diversified, relatively simple semantics

## Performance:

- GeAR gives competitive results for document retrieval
- Fine localization of information units
- Acceptable text generation
- The performance of the GeAR method exceeds that of some reference models for the selected examples.

## Decision

Accept with minor revision

## **Declarations**

**Potential competing interests:** No potential competing interests to declare.