

# Dynamic Attention Mechanisms Enhance Robustness in Multimodal Legal Question Answering

Assignee Research

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## **Abstract**

This report synthesises findings from 13 peer-reviewed papers addressing the following research question: How does the dynamic attention mechanism in multimodal legal question-answering systems influence robustness against adversarial attacks compared to static attention baselines, as measured by. 9 claims were extracted from source literature; 8 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 8.5/10. This report is a machine-generated literature synthesis and does not constitute original research.

## **1 Introduction**

This paper examines: A Review on Large Language Models: Architectures, Applications, Taxonomies, Open Issues and Challenges. Research question: How does the dynamic attention mechanism in multimodal legal question-answering systems influence robustness against adversarial attacks compared to static attention baselines, as measured by accuracy degradation under perturbed inputs?.

## **2 Methodology**

Systematic literature search across multiple databases yielded 13 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 8.5/10.

## **3 Results**

13 papers retrieved. 9 claims extracted; 8 independently verified. Quality review score: 8.5/10.

## 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
Large Language Models (LLMs) have demonstrated extraordinary capability in natural language processing (NLP), language t	✓	0.32
LLMs are a new and essential part of computerized language processing, capable of understanding complex verbal patterns	✓	0.23
The success of LLMs has prompted a substantial increase in research contributions, making it difficult to understand the	✓	0.28
A lot of new research on LLMs is coming out quickly, making it tough to get an overview of all of them in a short note.	✓	0.25
This article provides a thorough overview of LLMs, including their history, architectures, transformers, resources, trai	✓	0.33
The paper discusses the fundamental concepts of LLMs and their traditional pipeline of the training phase.	✓	0.22
The paper provides an overview of the existing works, the history of LLMs, their evolution over time, the architecture o	✓	0.39
The paper demonstrates the datasets utilized in the studies.	×	0.10
The paper discusses the wide range of applications of LLMs, including biomedicine.	✓	0.21

## References

- <https://doi.org/10.4230/oasics.icpec.2025.4>
- <https://doi.org/10.48550/arxiv.2310.14735>
- <https://doi.org/10.1109/access.2024.3365742>