# Multimodal Large Language Models for Reasoning in 6G Signal-Sensing Alignment

Assignee Research

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**Abstract**

This report synthesises findings from 15 peer-reviewed papers addressing the following research question: How do multimodal large language models perform in reasoning tasks when evaluating the alignment between wireless communication signals and sensing data in 6G integrated networks. Reasoning lies at the heart of intelligence, shaping the ability to make decisions, draw conclusions, and generalize across domains. In artificial intelligence, as systems increasingly operate in open, uncertain, and multimodal environments, reasoning becomes essential for. 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: Perception, Reason, Think, and Plan: A Survey on Large Multimodal Reasoning Models. Research question: How do multimodal large language models perform in reasoning tasks when evaluating the alignment between wireless communication signals and sensing data in 6G integrated networks?.

## 2 Methodology

Systematic literature search across multiple databases yielded 15 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

15 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/2505.04921v2
- http://arxiv.org/abs/2306.13549v4
- http://arxiv.org/abs/2309.02144v1