

Review of: "Chain of Ideas: Revolutionizing Research via Novel Idea Development with LLM Agents"

Charles Ferreira^{1,2}

¹ Computer Science, Universidade Federal do ABC, Brazil

² Computer Science, Centro Universitário da FEI, São Bernardo do Campo, Brazil

Potential competing interests: No potential competing interests to declare.

This paper proposes Chain of Ideas, an LLM agent capable of generating, analyzing, organizing, and selecting papers to emulate the human behavior involved in research to generate new ideas. The overall proposition is highly promising, although there are a few aspects that could be addressed to further improve the quality of the work.

I noticed the absence of an image providing a high-level overview of the project in the Introduction section. For example, a visual representation showing the minimum input and the corresponding expected output would be beneficial. While Figure 2 partially addresses this, a simpler diagram earlier in the paper would be beneficial.

Is it accurate to describe the entire project as a new prompt strategy? If so, this should be mentioned in the Abstract section and/or at the end of the Introduction.

At the end of the Abstract, there is a reference to the budget-friendly cost of using the idea generation system. This might not be the most appropriate place for this information. The conclusion section should be a more suitable location for such details.