

Review of: "[Perspective] AI Is All About Typing the Right Phrase"

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Potential competing interests: No potential competing interests to declare.

This article addresses the timely and suddenly urgent question whether AI threatens to make human creativity obsolete, with a focus on Earth science. The paper is well-written and nicely lays out the overall problem. In my view the paper could be improved in two ways.

First, the notion of creativity in scientific research is different from creativity in the arts. In science, AI threatens independent thought ("AI bias"), critical thinking, and intuitive approaches to research. In the arts, AI may lead to the end of craft, the development of artistic skill, and the human element in creative products. These are very different problems. The paper starts out by focusing on science, but doesn't explain how the impact of AI on creativity will affect Earth sciences specifically.

As a result, the second half of the paper, which focuses on creativity generally, fails to address the problem imperfectly posed in the first part. Instead, it recites generic platitudes and admonitions about "considering ethical, legal, and technical aspects, ensuring responsible AI, and following key principles such as transparency, accountability, fairness, and privacy." This is not exactly new or actionable thinking. The author would do better to consider specific implications for the domain initially described and offer solutions or at least suggestions that address these specifics.