

Peer Review

Review of: "Superintelligence: Identification of Friend or Foe Future Landscape of Cooperation with Non-human Intelligence"

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The article explores the concept of superintelligence, examining its potential origins and the dynamics of human interaction with it. It emphasizes the need for proactive preparation for these future interactions, encouraging the audience to consider the benefits of superintelligence while also cautioning against potential risks. The authors effectively illustrate these concerns by drawing analogies from historical human behavior.

One of the article's strengths is its broad coverage of topics related to superintelligence, providing a holistic understanding of this complex subject. Notably, it delves into different methods of measuring intelligence, discussing their challenges and limitations. Additionally, it extends the discussion beyond AI-driven superintelligence to ethical considerations and the possibility of extraterrestrial intelligence.

However, the article can be improved in several ways. While it presents diverse perspectives on the emergence of superintelligence and human interactions with it, the discussion remains broad and lacks practical implications. A more detailed examination of current technological advancements and strategies for managing superintelligence would enhance readers' understanding of how to develop, control, and coexist with such intelligence. Exploring real-world research, case studies, or technological roadmaps would make the discussion more tangible and actionable. Additionally, the authors would strengthen their argument by taking a firmer stance on existing approaches, offering insights into which strategies they find most viable and how these could be implemented.

Furthermore, since the article aims to raise awareness about the risks of interactions between superintelligence and less intelligent beings, it could benefit from a deeper exploration of policy and governance. Discussing existing AI-related regulations, such as the EU AI Act, would help contextualize the current legal landscape and highlight how similar or distinct frameworks might be required for superintelligence. This would provide a stronger foundation for discussing oversight, control mechanisms, and ethical responsibilities—making the article more relevant to policymakers and researchers working on AI governance.

Finally, refining the article's overall tone and structure would improve readability, as certain sections are difficult to grasp. Some conclusions also feel abrupt—for example, in the introduction: "Any emerging superintelligence will be potentially able to ignore less intelligent control." This assertion needs better support, especially since the development of superintelligence may not necessarily follow human-like patterns.

Declarations

Potential competing interests: No potential competing interests to declare.