

# Review of: "Quantifying the Environmental Impact: A Comparative Analysis of Consensus Algorithms in Blockchain for Carbon Footprint Reduction and Mitigating Climate Change"

Caixiang Fan<sup>1</sup>

<sup>1</sup> University of Alberta

Potential competing interests: No potential competing interests to declare.

This paper needs more work to be considered as a research article.

First, the motivation is not strong. From the title, readers expect the advantages and contributions of blockchain technology to the carbon footprint reduction and mitigating climate change. However, we didn't see this in the article.

Second, there are a lot of language issues. For example, in the abstract, ".....make the calls. And the emerging consensus mechanisms."

Third, it only proposed a methodology to calculate carbon fingerprint of blockchain consensus but lacking formal evaluations with experiments and associated analysis.

At last, this paper didn't provide any insights in terms of the efficiency of different blockchain consensus algorithms. The calculations are straightforward and lack formal definitions with mathematical formats.