

Review of: "SAT is as hard as solving Homogeneous Diophantine Equation of Degree Two"

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Potential competing interests: No potential competing interests to declare.

The paper contains some new materials. However, some things need to be clarified.

Therefore, the authors should update the paper by incorporating my suggestions.

- What problem was studied, and why is it important?
- What methods were used?
- What are the significant results?
- What is the novelty of the work, and where does it go beyond previous efforts in the literature?
- What does the current paper add to the subject area compared with other published studies?
- The paper's results pave the way to new avenues that are fully awaited. Therefore, future works should be added in the conclusion part.
- There are many estimation methods. Why do authors use three estimation methods?
- The programming codes developed for this study should be provided within the paper.

It will help researchers replicate the results of this paper and help them carry out this study to the next level.

- Authors numbered all equations in the paper; they must number the referred equations in the paper only.
- The English writing can be improved as some typos have been noticed in the manuscript; please correct all of them for the resubmission.