

Peer Review

Review of: "An Approximated QUBO Formulation for Solving Practical SAT Problems"

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"An Approximated QUBO Formulation for Solving Practical SAT Problems"

This study investigates a method that leverages the fact that practical SAT instances often contain many binary (size 2) clauses, with the use of a MAX2SAT formalization. The topic is important, and the results seem reasonable. The following are the reviewer's questions:

1. Is the method applicable to other combinatorial optimization problems such as integer programming problems or not?
2. What other complementary approaches can be considered for the effectiveness of the proposed method in the case of fewer binary clauses?
3. Does the time computation of the proposed method have advantages over the conventional QUBO formulation method or not?
4. Can the proposed method be considered an optimized method only for D-Wave hardware, or can it be used for other devices?
5. The author uses "we/us" in the paper. Is there only one author?

Declarations

Potential competing interests: No potential competing interests to declare.