

Peer Review

Review of: "A Review of Formal Methods in Quantum Circuit Verification"

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This article provides a clearly written, high-level review of formal methods in quantum circuit verification. It assesses the relative strengths of existing verification methods and identifies issues that have yet to be addressed by any of these methods. Table 2 (strengths, limitations, and use-cases of various barrier certificate types), and Sections 7 (challenges and limitations of existing verification methods) and 8 (directions for future research in quantum circuit verification), are especially helpful.

The methods used in the paper are appropriate. The references are relevant and comprehensive.

I recommend publishing the paper as is.

Declarations

Potential competing interests: No potential competing interests to declare.