Topclass Solar

Quant energy cost





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Energy Quantified

Energy Quantified (EQ) is proud to announce the launch of EQ 2.0, a comprehensive upgrade to our existing platform. Including a suite of new products, enhanced functionalities and a fresh facelift, EQ

Towards cost analysis and energy estimation of simple multiplexer

The energy-delay cost (× 10 3) in seV-scc of our multiplexer and demultiplexer are 0.206 and 0.429. It is worth noting that no previous research has estimated all of the cost parameters for





Are quantum computers really energy efficient?

Proponents often tout quantum computing as a more energy efficient alternative to classical computing methods. However, the extent to which it can reduce energy usage remains

Experimental investigation of the trade-off between quantum speed

Here, we establish and experimentally validate a trade-off between quantum speed and its associated energy cost rate based on Schatten 2-norm in Hilbert space.





Energy Cost of Quantum Circuit Optimisation: Predicting That

This is the first in-depth study on the cost of compiling and optimising large-scale quantum circuits with state-of-the-art quantum software. We propose a hierarchy of cost metrics

Exploring the trade-off between computational power and energy

Exploring the trade-off between computational power and energy efficiency: An analysis of the evolution of quantum computing and its relation to classical computing?





Global-local duality of energetic control cost in multipartite quantum

This work presents a global-local thermodynamic framework that uncovers universal structures in the thermodynamic cost of driving generic multipartite quantum correlated systems.

Contact Us

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