LICENSING OPPORTUNITY: PERFORMING BANG-ANNEALBANG QUANTUM OPTIMIZATION



DESCRIPTION

Problem

Optimization problems, such as the Traveling Salesman Problem (TSP). Previous quantum protocols are slower.

Invention

A new quantum protocol called the "bang-anneal-bang" protocol, for solving optimization problems such as the Traveling Salesman Problem (TSP) on a quantum computer.

BENEFITS

Commercial Application

- Commerce, warfare etc.
- Drug design, material synthesis, etc.

Competitive Advantage

Our protocol performs better (gets to the optimum faster or gets closer to the optimum under a fixed time constraint) than existing protocols, including quantum annealing, the quantum approximate optimization

algorithm (QAOA), and the variational quantum eigensolver (VQE).