and for studenal topology optimization =>
1) define the optimization problem 1) define the optimization problem 2) create a quantum ant colony 3) initialize the anantum ant colony 4) 9 to rate the anantum and colony 4) 9 to rate the anantum and colony 4) moves through the design space
-> Each are phenomene is used to guide
mensures the quarterin and colony.
(a) define optimization problem -> specifying objects function and the design space function and the design space function and the design space (b) (reste QAC-> set of qubits that represent phenomene (c) (reste QAC-> set of qubits represent phenomene and another set of qubits represent phenomene and another set of qubits represent phenomene and another set of qubits phenomene = qubits phenomene = qubits archaeliting QAC-> randomly assigning values to
(d) nevation (c) measure dac -> by measuring quests. (e) measure dac -> by measuring quests. (f) measure dac -> by measuring quests. (g) measure dac -> by measuring quests. (g) parameter optimization (g) decision variable (g) done for any meta- (g) done for any meta- (g) decision variable (g) constraints. (g) done for any meta- (g) decision variable (g) done for any meta- (g) decision variable (g) decision variable (g) done for any meta- (g) decision variable (g) decision va

Quantum computing and Ant-colony optimization I problem formulation (112) Syropisdane 2) objective function 3) Quantum Aco setup 5) Augnlum Aco algorillim 4) Quantum Encoding 6) Quantum Annealing [optional] * 1) Simulation and Debugging 8) Quantim Hardware 9) parameter Turing and optimization Result analysis Post- processing I terative optimization. problem formulation => define str topology with the objectione .) The goal is to find the optimal layout of matorials within a given during space to acheive specific es objective > minimite the structural compliance or maximize stiffners of a mechanical structure to external bads while considering material volume

as a constraint.