**Quantum Computing Algorithms**

**Abstract**

**1 Introduction to Quantum Computing**

* 1. **What is a Quantum computer**
  2. **Emergence of need of quantum computers**
  3. **Superposition State**
  4. **Interference of states**
  5. **Quantum Entanglement**

1. **What are Quantum Computing Algorithms**
   1. **Quantum Computer Simulators**
   2. **Quantum Algorithms**

**3 Significance of Quantum Computing Algorithms**

**4 Designing of Quantum Computing Algorithms**

**5 Conclusions**

**6 References**