Abstract

Quantum computing is a promising field that emerged out of a combination of quantum physics and computer science. With ever expanding data across different areas, the conventional computer will run out of its capacity to handle such big data. Further, extracting the meaningful from big complex data still, accompany challenges with it. Quantum computing main goal is to provide such algorithms which are robust and faster in solving problems as compared to classical computers. In this paper, the limitations of a classical computer, basic features of quantum computing and its applications in the bioinformatics have been explored.

References

2. Hruska, J. 2013. Intel’s former chief architect: Moore’s law will be dead within a decade.
Quantum Computing—Applications in Bioinformatics

https://spectrum.ieee.org/semiconductors/devices/the-tunneling-transistor


6. Dirac notation


Index Terms

Computer Science

Circuits and Systems

Keywords

Quantum computing, Classical computing, Bioinformatics