METADATA

Title: Principles of Quantum Computation

Other Titles: -

Language: Greek

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ISBN: 978-618-228-211-3

Subject: MATHEMATICS AND COMPUTER SCIENCE, NATURAL SCIENCES AND AGRICULTURAL SCIENCES

Keywords: Quantum computation / qubit / Quantum algorithm / Quantum cryptography

Bibliographic Reference: Marmorkos, I. (2024). Principles of Quantum Computation [Undergraduate textbook]. Kallipos, Open Academic Editions. http://dx.doi.org/10.57713/kallipos-807

Abstract

This book presents the basic principles of quantum computing. The computer is presented as a physical system and computation as a physical process. The supremacy of the contribution of quantum mechanics to computation is analyzed. The presentation of quantum computing takes place from the perspective of the quantum circuit model. The most important quantum algorithms are described, as well as the corresponding algorithms of quantum cryptography. Finally, a brief presentation of the so far candidate physical systems for the implementation of the quantum computer is attempted.

The Project is funded by the National Development Programme 2021-2025 of the Ministry of Education and Religious Affairs and implemented by the Special Account for Research Funds of the National Technical University of Athens and the Hellenic Academic Libraries Link.