

Quantum Computing For Computer Scientists

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Quantum Computing for Computer Scientists

Quantum computing is an interdisciplinary field with contributions from physicists, computer scientists, engineers, mathematicians and even chemists (such as my adviser). Researchers in quantum computing come from all these backgrounds, so there are many paths you could take to be successful.

The Best Quantum Computing Books | Five Books Expert ...

Learning objectives o o o o Representing computation with basic linear algebra (vectors and matrices) Qbits, superposition, and quantum logic gates The simplest problem where a quantum computer beats a classical computer Bonus topics: quantum entanglement and teleportation.

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Quantum Computing for Computer Scientists - Microsoft Research

Quantum Computing for Computer Scientists. The multidisciplinary field of quantum computing strives to exploit some of the uncanny aspects of quantum mechanics to expand our computational horizons. Quantum Computing for Computer Scientists takes readers on a tour of this fascinating area of cutting-edge research.

Quantum Computing For Computer Scientists Book - PDF Download

Quantum computing began in the early 1980s, when physicist Paul Benioff proposed a quantum mechanical model of the Turing machine. Richard Feynman and Yuri Manin later suggested that a quantum computer could perform simulations that are out of reach for regular computers.

Quantum Computing for Computer Scientists by Noson S. Yanofsky

Quantum Computing for Computer Scientists The multidisciplinary field of quantum computing strives to exploit some of the uncanny aspects of quantum mechanics to expand our computational horizons. Quantum Computing for Computer Scientists takes readers on a tour of this fascinating area of cutting-edge research. Written

Quantum Computer Science - DPHU

Introduction to Quantum Computing · 3. can freely explore the theoretical realm of quantum computing. Section 3 defines the quantum bit, or qubit. Unlike classical bits, a quantum bit can be put in a superposition state that encodes both 0 and 1.

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Series. The talk concludes with a live demonstration of quantum entanglement on a real-world quantum computer, and a demo of the Deutsch oracle problem implemented in Q# with the Microsoft Quantum Development Kit. This talk assumes no prerequisite knowledge, although comfort with basic linear algebra (matrices, vectors,...

Quantum computing - Wikipedia

quantum theory from a computer-science perspective. It illustrates the quantum-computational approach with several elementary examples of quantum speed-up, before moving to the major applications: Shor's factoring algorithm, Grover's search algorithm, and quantum error correction. The book is intended primarily for computer scientists who know

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Quantum Computing for Computer Scientists. The multidisciplinary topic of quantum computing strives to benefit from a couple of of the uncanny options of quantum mechanics to broaden our computational horizons. Quantum Computing for Computer Scientists takes readers on a tour of this fascinating area of slicing-edge evaluation.

Quantum Computing | UMD Department of Computer Science

Quantum computing is a beautiful fusion of quantum physics and computer science, incorporating some of the most stunning ideas from twentieth-century physics into an entirely new way of thinking about computation.

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Quantum Computing for Computer Scientists

Quantum Computing Quantum computing aims to exploit a quantum mechanical representation of information to enable new computers and new communication devices capable of performing tasks that would otherwise be infeasible.

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