

Introduction to Quantum Computing

I.V. Grossu

Linear Algebra Basics

Complex Numbers

Matrices

Vector Spaces

Quantum Mechanics Basics

de Broglie Wavelength

Wave Function Concept

Bohr Atomic Model

Electron Spin

Quantum Computing Basics

Qubit

Register

Quantum Algorithm

Measurement in Computational Basis

Partial Measurement

Quantum Entanglement

Example (Grover's algorithm)



Quantum Computer Science An Introduction

Gang Shen,Xiong Huang



Quantum Computer Science An Introduction:

Quantum Computer Science N. David Mermin, 2007-08-30 In the 1990 s it was realized that quantum physics has some spectacular applications in computer science This book is a concise introduction to quantum computation developing the basic elements of this new branch of computational theory without assuming any background in physics It begins with an introduction to the 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 nothing about quantum theory but will also be of interest to physicists who want to learn the theory of quantum computation and philosophers of science interested in quantum foundational issues It evolved during six years of teaching the subject to undergraduates and graduate students in computer science mathematics engineering and physics at Cornell University

Advanced Research on Computer Science and Information Engineering Gang Shen, Xiong Huang, 2011-05-09 This two volume set CCIS 152 and CCIS 153 constitutes the refereed proceedings of the International Conference on Computer Science and Information Engineering CSIE 2011 held in Zhengzhou China in May 2011 The 159 revised full papers presented in both volumes were carefully reviewed and selected from a large number of submissions The papers present original research results that are broadly relevant to the theory and applications of Computer Science and Information Engineering and address a wide variety of topics such as algorithms automation artificial intelligence bioinformatics computer networks computer security computer vision modeling and simulation databases data mining e learning e commerce e business image processing knowledge management multimedia mobile computing natural computing open and innovative education pattern recognition parallel computing robotics wireless networks and Web applications *Encyclopedia of Information Science and Technology, Third Edition* Khosrow-Pour, D.B.A., Mehdi, 2014-07-31 This 10 volume compilation of authoritative research based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities prospective solutions and future directions in the field of information science and technology Provided by publisher

Introduction to Topological Quantum Matter & Quantum Computation Tudor D. Stanescu, 2016-12-19 What is topological about topological quantum states How many types of topological quantum phases are there What is a zero energy Majorana mode how can it be realized in a solid state system and how can it be used as a platform for topological quantum computation What is quantum computation and what makes it different from classical computation Addressing these and other related questions *Introduction to Topological Quantum Matter* Quantum Computation provides an introduction to and a synthesis of a fascinating and rapidly expanding research field emerging at the crossroads of condensed matter physics mathematics and computer science Providing the big picture this book is ideal for graduate students and researchers entering this field as it allows for the fruitful transfer of paradigms and ideas amongst

different areas and includes many specific examples to help the reader understand abstract and sometimes challenging concepts. It explores the topological quantum world beyond the well known topological insulators and superconductors and emphasizes the deep connections with quantum computation. It addresses key principles behind the classification of topological quantum phases and relevant mathematical concepts and discusses models of interacting and noninteracting topological systems such as the toric code and the p wave superconductor. The book also covers the basic properties of anyons and aspects concerning the realization of topological states in solid state structures and cold atom systems. Quantum computation is also presented using a broad perspective which includes fundamental aspects of quantum mechanics such as Bell's theorem, basic concepts in the theory of computation such as computational models and computational complexity, examples of quantum algorithms and elements of classical and quantum information theory.

Quantum Computation

Andreas de Vries, 2012-03-31 Since the 1980s research on quantum computation has dramatically changed the theoretical perspectives of computer science. Quantum computers could enable unprecedented computational power and revolutionize our cryptographic systems even our entire electronic communication. This textbook gives an introduction to the theory of quantum computation. The author has chosen an elementary and lean theoretical approach presupposing mathematical and physical knowledge which is standard in undergraduate courses of scientific or engineering studies in essence linear algebra and complex numbers. The necessary mathematical notions are given in the appendix.

Contents

Strange quantum world qubits and quantum gates Quantum Fourier transformation and QFT algorithms Quantum search quantum communication error correcting quantum codes How to build and simulate a quantum computer Density operators and measurements Complexity theory and quantum logic Who should read this book Students of engineering especially electronic engineering Students of computer science physics or mathematics Practitioners in business and economy who want to understand apply or evaluate this new technology

Quantum Computer Science Marco Lanzagorta, Jeffrey K. Uhlmann, 2009 In this text we present a technical overview of the emerging field of quantum computation along with new research results by the authors. What distinguishes our presentation from that of others is our focus on the relationship between quantum computation and computer science. Specifically our emphasis is on the computational model of quantum computing rather than on the engineering issues associated with its physical implementation. We adopt this approach for the same reason that a book on computer programming doesn't cover the theory and physical realization of semiconductors. Another distinguishing feature of this text is our detailed discussion of the circuit complexity of quantum algorithms. To the extent possible we have presented the material in a form that is accessible to the computer scientist but in many cases we retain the conventional physics notation so that the reader will also be able to consult the relevant quantum computing literature. Although we expect the reader to have a solid understanding of linear algebra we do not assume a background in physics. This text is based on lectures given as short courses and invited presentations around the world and it has been used as the primary text for a

graduate course at George Mason University In all these cases our challenge has been the same how to present to a general audience a concise introduction to the algorithmic structure and applications of quantum computing on an extremely short period of time The feedback from these courses and presentations has greatly aided in making our exposition of challenging concepts more accessible to a general audience Table of Contents Introduction The Algorithmic Structure of Quantum Computing Advantages and Limitations of Quantum Computing Amplitude Amplification Case Study Computational Geometry The Quantum Fourier Transform Case Study The Hidden Subgroup Circuit Complexity Analysis of Quantum Algorithms Conclusions Bibliography

An Introduction to Quantum Computing Algorithms Arthur O. Pittenger, 2012-12-06 In 1994 Peter Shor 65 published a factoring algorithm for a quantum computer that finds the prime factors of a composite integer N more efficiently than is possible with the known algorithms for a classical computer Since the difficulty of the factoring problem is crucial for the security of a public key encryption system interest and funding in quantum computing and quantum computation suddenly blossomed Quantum computing had arrived The study of the role of quantum mechanics in the theory of computation seems to have begun in the early 1980s with the publications of Paul Benioff 67 who considered a quantum mechanical model of computers and the computation process A related question was discussed shortly thereafter by Richard Feynman 35 who began from a different perspective by asking what kind of computer should be used to simulate physics His analysis led him to the belief that with a suitable class of quantum machines one could imitate any quantum system

Encyclopedia of Information Science and Technology, Fourth Edition Khosrow-Pour, D.B.A., Mehdi, 2017-06-20 In recent years our world has experienced a profound shift and progression in available computing and knowledge sharing innovations These emerging advancements have developed at a rapid pace disseminating into and affecting numerous aspects of contemporary society This has created a pivotal need for an innovative compendium encompassing the latest trends concepts and issues surrounding this relevant discipline area During the past 15 years the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline The Encyclopedia of Information Science and Technology Fourth Edition is a 10 volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives applications and techniques contributed by thousands of experts and researchers from around the globe This authoritative encyclopedia is an all encompassing well established reference source that is ideally designed to disseminate the most forward thinking and diverse research findings With critical perspectives on the impact of information science management and new technologies in modern settings including but not limited to computer science education healthcare government engineering business and natural and physical sciences it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library

Quantum Computing for Computer Scientists Noson S. Yanofsky, Mirco A. Mannucci, 2008-08-11

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 in an accessible yet rigorous fashion, this book employs ideas and techniques familiar to every student of computer science. The reader is not expected to have any advanced mathematics or physics background. After presenting the necessary prerequisites, the material is organized to look at different aspects of quantum computing from the specific standpoint of computer science. There are chapters on computer architecture, algorithms, programming languages, theoretical computer science, cryptography, information theory, and hardware. The text has step by step examples, more than two hundred exercises with solutions, and programming drills that bring the ideas of quantum computing alive for today's computer science students and researchers.

Advanced Methodologies and Technologies in Library Science, Information Management, and Scholarly Inquiry Khosrow-Pour, D.B.A., Mehdi, 2018-11-02 As the academic and scholarly landscape are continuously enhanced by the advent of new technology, librarians must be aware and informed to develop and implement best practices. Effective administration of libraries is a crucial part of delivering library services to patrons and ensuring that information resources are disseminated efficiently. Advanced Methodologies and Technologies in Library Science, Information Management and Scholarly Inquiry provides emerging information on modern knowledge management and effective means of sharing research through libraries. While highlighting the importance of digital literacy and information resources, readers will also learn new methods in information retrieval and research methods in quality scholarly inquiry. This book is an important resource for librarians, administrators, information science professionals, information technology specialists, students, and researchers seeking current information on the importance of effective library science technology.

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