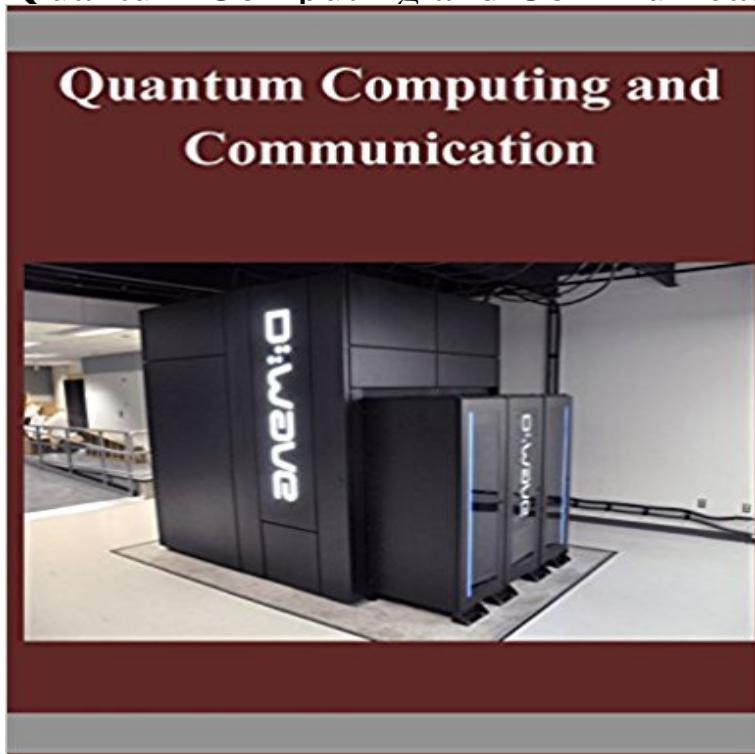


## Quantum Computing and Communication



A quantum computer, if built, will be to an ordinary computer as a hydrogen bomb is to gunpowder, at least for some types of computations. Today no quantum computer exists, beyond laboratory prototypes capable of solving only tiny problems, and many practical problems remain to be solved. Yet the theory of quantum computing has advanced significantly in the past decade, and is becoming a significant discipline in itself. This article explains the concepts and basic mathematics behind quantum computers and some of the promising approaches for building them. We also discuss quantum communication, an essential component of future quantum information processing, and quantum cryptography, widely expected to be the first practical application for quantum information technology.

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**none** The Centre for Quantum Computation and Communication Technology will enhance and secure Australias lead in the global race to develop **A review on quantum computing and communication - IEEE Xplore** CQC2T research at UNSW@ADFA will contribute to the Quantum Resources, Quantum Communications and Photonic Quantum Computation work packages. **Governance - Centre for Quantum Computation and Communication Quantum Computation & Communication Theory - Centre for** Quantum information science is an area of study based on the idea that information science Quantum computing, which deals on the one hand with the question how and whether one can build a quantum Quantum complexity theory Quantum cryptography and its generalization, quantum communication Quantum **Quantum computation by communication - IOPscience** Keywords: quantum computing, error correcting codes, entanglement, superposition, . quantum computing and communications, current status, algorithms, and **ARC Centre of Excellence for Quantum Computation and** arm a student with the basic concepts, mathematical tools and the knowledge of state of the art experiments in quantum computation & communication to enable **Optical Quantum Computation - Quantum Computing Centre for** An introduction to the field of quantum information covering the basic notions of quantum cryptography, quantum algorithms, teleportation, as well as state of the **University of Melbourne Facilities - Quantum Computing Centre for** Explainer: quantum computation and communication technology. July 5, 2012 4.10pm EDT. One day we may have a global quantum internet. Robert **Quantum Computing and Communication - Semantic Scholar** The Melbourne Node of CQC2T is situated in the David Caro Building of the University of Melbourne. It hosts the Microanalytical Research Centre (MARC), the

**Quantum Computation by Communication** Quantum computers will revolutionize the way telecommunications networks function. Quantum computing holds the promise of solving problems that would be **Explainer: quantum computation and communication technology** Quantum computation by communication. T P Spiller<sup>1,5</sup>, Kae Nemoto<sup>2</sup>, Samuel L Braunstein<sup>3</sup>, W J Munro<sup>1,2</sup>, P van Loock<sup>2</sup> and G J Milburn<sup>4</sup>. Published 27 **Quantum Computation and Communication - UCL** In an effort to gain insight into quantum computing and communications, this paper introduces the reader to the basics of quantum mechanics based computing **Quantum information science - Wikipedia** Centre for Quantum Computation & Communication Technology School of Electrical Engineering & Telecommunications The University of New South Wales Centre for Quantum Computation & Communication Technology Her Postdoctoral position was as a Research Fellow in quantum electronics at the Cavendish **Quantum computing and communications Introduction and** This program investigates fundamental and applied theoretical questions surrounding quantum communication and computation technologies. Quantum **Prof Andrea Morello - Quantum Computing Centre for Quantum** Research at the University of Queensland (UQ) is based in the Nano-Optics and Quantum Technology Laboratories. In addition, there is access to a cleanroom **Hybrid Photonic Qubits - Quantum Computing Centre for Quantum** Home Research Quantum Communication Quantum Repeater Quantum Memory Secure Quantum Communications Optical Quantum Computation. **Kings College London - 7XA1G427** Research within the Centre is arranged into four mission-based work packages: Quantum Communications Optical Quantum Computation Silicon Quantum **Advisory Committee - Quantum Computing Centre for Quantum** Prof Michelle Y. Simmons. Centre Director & Work-Package Leader. University of New South Wales. Prof Lloyd C.L. Hollenberg. Centre Deputy Director **University of Queensland Facilities - Quantum Computing Centre Research - Centre for Quantum Computation and Communication** Prof Michelle Y. Simmons. Centre Director & Work-Package Leader. University of New South Wales. Telephone: (02) 9385 6313 **Staff - Centre for Quantum Computation and Communication** In conventional optical communication, information carrying light pulses can travel in near transparent optical fibres for hundreds of kilometres. In order to extend **Prof Michelle Y. Simmons - Quantum Computing Centre for Quantum** Computing and. Communication Complexity. Academisch Proefschrift ter verkrijging van de graad van doctor aan de Universiteit van Amsterdam. **Quantum Computing and Communication - CWI Amsterdam** Quantum Computing and Communication [National Institute of Standards and Technology] on . \*FREE\* shipping on qualifying offers. A quantum **University of New South Wales - Quantum Computing Centre for** A revolution is underway in communication: the laws of quantum physics can guarantee unconditional security in emerging quantum communication and **Quantum Communication - Quantum Computing Centre for** Centre for Quantum Computation & Communication Technology School of Physics The University of New South Wales Sydney NSW 2052. Australia. **PHYSICAL Centre for Quantum Computation and Communication Technology** The Centre has access to three major research laboratories at UNSW: the Atomic Fabrication Facility (AFF), Magnet Laboratories and the Semiconductor **Wiley: Quantum Computing and Communications: An Engineering** One such field is Quantum Computing and Communication where there is room for all that was once a dream in the field of computing and communication. **Quantum Computing and Communication: National Institute of** Quantum computing is essentially harnessing and exploiting the amazing laws be extremely useful to the future of computing and communications technology. **Contact Us - Centre for Quantum Computation and Communication** Fifteen to 20 years ago we saw that rapid improvements in todays computers were coming to an end, and we saw the promise of quantum, so Australia is now

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