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Quantum Circuit Model, Which Works As Follows: 1.The Quantum Computer Has A State That Is Contained In A Quantum Register And Is Initialized In A Predefined Way. 2.The State Evolves By Applying Operations Specified In Advance In The Form Of An Algorithm. 3.At The End Of The Computation, Some Information On The State Of The Quantum Apr 5th, 2024

An Introduction To Quantum Computing

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KLMA An Introduction To Quantum Computing, Oxford
University Press (2007). KSV Classical And Quantum
Computation (Graduate Studies In Mathematics), AMS,
2002. Wat The Theory Of Quantum Information,
Cambridge University Press, 2018. Aar Introduction To
Quantum Informa Apr 7th, 2024

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Quantum Gates: Summary The First 4 Gates Above Are
Similar To The Classical Gates. The Last Two Are Non-
classical Gate. There Are Many Other Classical/non-
Classical Quantum Gates, E.g., Rotate, Copy, Read,
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Circuits 0 1 111 0 NOT= AND= 1 0 0001 1 000 0001
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Discovery Has Potentially Important Implications For
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Tum Gates And All Quantum Computations, Must Be Reversible. Yet All Classical Algorithms Can Be Made Reversible And Can Be Computed On A Quantum Computer In Comparable Time. Some Common Quantum Gates Are Defined In Section 4. Two Applications Combining Quantum Gates And Entangled States Feb 2th, 2024

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This Course Is About The Theory Of Quantum Computation, I.e., To Do Computation Using Quantum Systems. These Quantum Systems Follow The Rules Of Quantum Mechanics. We Want To Use The Properties Of Quantum Mechanics To Solve Our Problems. Hence, The Task Is To Encode Computation (problems+solutions) In A Quantum Mechanical Systems. Apr 6th, 2024

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Of Particular Interest, Which Ethical Issues Are Most Relevant, Or How Such Issues Could Be Identified Or Addressed In Practice. The Potential Of Computing Technologies To Raise Ethical And Social Issues That Differ Fundamentally From Those Raised By Other Technologies Has Been Discussed Since The Very Inception Of Digital Computing [Wiener 1954]. Apr 2th, 2024

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Systems, Medicine, Social Systems, Warfare, And Autonomous Vehicles. Machine Learning Techniques, Such As Deep Neural ... THERMODYNAMIC COMPUTING
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