

ADIABATIC QUANTUM COMPUTATION AND QUANTUM ANNEALING THEORY AND PRACTICE%0A

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[Quantum annealing vs adiabatic quantum computation](#)

I had this impression that quantum annealing is an optimization technique which may or may not produce exact solutions. On the other hand adiabatic quantum computation always gives exact solutions when it gives a solution.

[Adiabatic quantum computation - Wikipedia](#)

Adiabatic quantum computation (AQC) is a form of quantum computing which relies on the adiabatic theorem to do calculations and is closely related to, and may be regarded as a subclass of, quantum annealing.

[Adiabatic Quantum Computing from Google - bestinews.com](#)

The adiabatic quantum computing model uses the method of annealing processing. Google reported a combination of techniques that may lead to promising results in developing the first quantum computer. The model is called adiabatic quantum computing.

[Adiabatic Quantum Computation and Quantum Annealing ...](#)

Adiabatic QuantumComputation andQuantumAnnealing eory and Practice Synthesis Lectures onQuantum Computing Editor Marco Lanzagorta,U.S. Naval Research Labs Jeffrey Uhlmann.University

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Adiabatic quantum computation (AQC) is an alternative to the better-known gate model of quantum computation. The two models are polynomially equivalent, but otherwise quite dissimilar: one property that distinguishes AQC from the gate model is its analog nature.

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[Adiabatic quantum computation and quantum annealing ...](#)

Adiabatic quantum computation (AQC) is an alternative to the better-known gate model of quantum computation. The two models are polynomially equivalent, but otherwise quite dissimilar: one property that distinguishes AQC from the gate model is its analog nature. Quantum annealing (QA) describes a type of heuristic search algorithm that can be implemented to run in the native instruction set of

[Overview of adiabatic quantum computation](#)

Quantum adiabatic optimization is a class of procedures

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ScholastikCommunity Health Care In CubaFortschritt Bei
MarxAvid Media Composer 6x CookbookThe Platinum
Group Metals IndustryBuilding Websites With
PhpnukeListening To Young Children The Mosaic
ApproachEngineering Drawing For ManufactureThe Sony
Alpha Nex7An Aviary Of Small BirdsThe Handbook Of
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Of Scottish Undertaker Jammy StewartThe Magic
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Year By Hundreds Of Happy Moms And Dads Who DidA
Fine Balance Assessing The Quality Of Governance In
BotswanaThe Summer We All Ran AwayMindrain Your
Favorite Authors On Scott Westerfeld S Ugles SeriesDie
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ConfessionEvidencebased Education In The Health
ProfessionsPromoting Best Practice In The Learning And
Teaching Of StudentsDeath As Gateway To EternityFrom
Seeds To Leaves A Complete Guide To Growing
Australian Shrubs And Trees From Seed

for solving optimization problems using a quantum
computer!! Basic strategy!! Design a Hamiltonian whose
ground state encodes the solution of an optimization
problem! Prepare the known ground state of a simple
Hamiltonian! Interpolate slowly!! Proposed in the context
of quantum computation by Farhi, Goldstone, Gutmann,
and

[Quantum Annealing - stat.phys.titech.ac.jp](http://stat.phys.titech.ac.jp)

In other words, adiabatic quantum computation (AQC) is a
subset of quantum annealing (QA) but the converse is not
true. Also, quantum annealing may be understood to allow
for interactions with the environment including thermal

noise.