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DNA computing, the performing of computations using biological molecules, rather than traditional silicon chips. The idea that individual molecules (or even atoms) could be used for computation dates to 1959, when American physicist Richard Feynman presented his ideas on nanotechnology.

DNA computing | computer science | Britannica

The goal of the DNA computing field is to create a device that can work independent of human involvement. Three years after Adleman's experiment, researchers at the University of Rochester developed logic gates

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made of DNA. Logic gates are a vital part of how your computer carries out functions that you command it to do.

[How DNA Computers Will Work | HowStuffWorks](#)

DNA computing is a novel method that solving a class of intractable computational problems, in which the computing speeds up exponentially with the problem size. Up to now, many accomplishments have been made to improve its performance and increase its reliability.

[DNA Computing | Scientific.Net](#)

Basics And Origin of DNA Computing. DNA computing is utilizing the property of DNA for massively parallel computation. With an appropriate setup and enough DNA, one can potentially solve huge problems by parallel search. Utilizing DNA for this type of computation can be much faster than utilizing a conventional computer

[DNA Computing](#)

DNA computing is a branch of computing which uses DNA, biochemistry, and molecular biology hardware, instead of the traditional silicon-based computer technologies. Research and development in this area concerns theory, experiments, and applications of DNA computing. The concept of DNA computing was first introduced in 1994.

[DNA Computing - Foglets](#)

As being a new theory, the DNA computing treated as a new computational pattern also need a lot of basic

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theoretical research system. This article describes the nature of DNA computing, given the equivalence of DNA computing pattern with traditional computer under the support of automata theory system, further analysis and understanding the DNA computing pattern.

DNA Computing Pattern Analysis Based on DNA Computational ...

DNA computing is the use of biomolecular components rather than standard artificial hardware (such as silicon chips) in computer technology. In place of traditional code (such as the common binary variety), DNA computing utilizes the four-character genetic alphabet, which consists of: A – Adenine; G – Guanine; C – Cytosine; T – Thymine

What is DNA Computing? - Definition from Techopedia

DNA computing technology is unlikely to replace conventional silicon computers. But within five to 10 years DNA-based computers could be tested for medical applications.

What Can DNA-Based Computers Do? | MIT Technology Review

DNA computing is an emerging branch of computing which uses DNA, biochemistry, and molecular biology hardware, instead of the traditional silicon-based computer technologies. Research and development in this area concerns theory, experiments, and applications of DNA computing. Although the field originally started with the demonstration of a computing application by Len Adleman in 1994, it has now been expanded to several other avenues such as the development of storage technologies, nanoscale i

DNA computing - Wikipedia

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DNA Computing Pattern | Scientific.Net

DNA computing has the support of automata theory completely, based on the equivalent for expressing problem by DNA computing model and the double-shift language in automata theory, using a DNA molecule may encode the instantaneous description of Turing machine, and the operation of continuous sequence can be realized by the DNA molecule s operation with enzymes.

Binary Tree DNA Computing Model Based on the Insert ...

DNA computer is a new type of computer which computing by biological molecular techniques. If DNA computer want to realize its practicability, it must be the same as a traditional computer. In order to settle the issues of representation and organizational in DNA computer, we need a reasonable data structures to effectively represent and organize the information of DNA computer.

Design of the Stack Structure Based on DNA Computing Model ...

AES is one of the most widely used cryptographic systems. DNA computing has the high efficiency to solve some NP-problems. Therefore many scientists try to combine DNA computing with cryptography. In this paper, an algorithm is designed to simulate a plaintext encrypted by DNA biotechnology and modern cryptography. After mapping the plaintext information as DNA chain and handling the base ...

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A New Encryption Method Based on Rijndael Algorithm and ...

Short Bytes: The concept of DNA computing was first introduced in 1994. It deals with the “ biochips ” made of DNA that are able to perform billions of calculations at once by multiplying themselves...

What Is A DNA computer? How Can It Beat The World ' s ...

Typically, increasing performance of silicon computing means faster clock cycles, placing emphasis on the speed of the CPU and not on the size of the memory. Oppositely, the power of DNA computing comes from its memory capacity and parallel processing. In other words, DNA loses its appeal if forced to behave sequentially. Example 1:

Evaluation - Stanford University Computer Science

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