

Logic Of Computation

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While the race to quantum supremacy is picking up pace, it's still very early stages to call it a "competition." And yet funding is being poured ...

The State of Quantum Computing Systems

Building logic gates out of silicon is old hat ... yet — there ' s no reason to believe this crab-based system of computation couldn ' t be expanded to a (very) basic calculator.

Making Logic Gates Out Of Crabs

The use of a logic gate is the beginning of what could be called cellular computing. It is a major milestone because it demonstrates the ability to embed conditional operations in a protein and ...

Nanocomputing Shows It Can Control Protein Function

That ' s what ' s used here — good old 74-series logic, which you can find just ... great way to get to grips with the basic concepts of computation. Once you ' ve tried this, you could always ...

DDL-4 Is A Visually Pleasing Modular CPU

Officially, we will encounter concepts of combinatorics, geometry, number theory and Boolean logic. Unofficially, we will experiment with puzzles and patterns and develop as much mathematics from them ...

Mathematical Sciences Course Listing

The logic gates are structured in very specific physical ways to perform mathematical operations on the current (the data) flowing through them to arrive at a result. Literally every type of ...

How Bitcoin Mining Is Solving Our E-Waste Crisis

Evangelos S. Eleftheriou - CTO of Technology is progressing at an incredible pace and no technology is moving faster than Artificial Intelligence (AI).

What's Next for Data Processing? A Closer Look at In-Memory Computing

Mathematics is the science that deals with the logic of shape, quantity and arrangement. Math is all around us, in everything we do. It is the building block for everything in our daily lives, ...

What is mathematics?

Researchers have produced a nanocomputing agent that can control the function of a particular protein that is involved in cell movement and cancer metastasis. The research paves the way for the ...

Nanoscale 'computer' controls function of protein, influences cell behavior

This article discusses how legacy manufacturing enterprises can harness the latest technologies, to optimize factory operations without having to ramp up infrastructure investment.

Transforming Legacy Manufacturing Enterprises With AI on the Edge

A new peer-reviewed study published this week in PNAS shows how learning, an important aspect of human intelligence, can be recreated in synthetic matter—a discovery that can lead to new forms ...

Psychology Today

Jokisaari has been involved in major computational materials science research efforts in her three years at INL. For example, she has worked with the Department of Energy ' s Nucl ...

INL computational scientist solves nuclear science mysteries

2.) The AGC Used NOR Logic AGC computation designed used three input NOR logic gates packaged in microcircuit form. Bipolar transistors served as the core method of selecting erasable memory for the ...

5 Engineering Facts About the Apollo Guidance Computer

To know how the reversible computation concept has emerged ... These gates helped a lot to utilize the concepts to implement different combinational and sequential logic gates, which have been in the ...

Will Reversible Logic Save Moore's Law? You Weigh the Pros and Cons

Again, it is not just the computation tools that are important but how ... Architectural construction is traditionally realised through a compressive logic. The orthogonal geometries of the ...

Fabricate 2011: Making Digital Architecture

DesignWare® MTP EEPROM Non-Volatile Memory (NVM) IP is a Multi-Time Programmable (MTP) block developed in standard logic CMOS processes ... a member of the VPX VLIW/ SIMD DSP family for high-end ...

Asil-IP Listing

Researchers have created a computational operation and embedded it into a protein. In doing so, they are now able to rapidly activate the protein using light and the drug rapamycin. When activated, ...

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