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Analog and Stochastic Computation in Living Cells and Supercomputing Chips. Rahul Sarpeshkar says that despite 15+ years of research, synthetic circuits in living cells have been largely limited to a handful of digital logic gates and have not scaled.

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Natural Computing is concerned with computation that is taking place in Nature. The investigation of computations in living cells is one of the central and fastest growing areas of research in The investigation of computations in living cells is one of the central and fastest growing areas of research in

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The use of living processes to generate grammars, artificial reasoning patterns, or computational algorithms is now a broad area of research and has been labeled as "bio-inspired computing".

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[Computation in living cells : gene assembly in ciliates ...](#)

This is the first monograph on computation in living cells - one of the central and fastest growing areas of research in this field. Gene assembly in ciliates (unicellular organisms) is a splendid example of such computations. (PDF) Synthetic mixed-signal computation in living cells

Living cells implement complex computations on the continuous environmental signals that they encounter. These computations involve both analogue- and digital-like processing of signals to give

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A central goal of synthetic biology is to achieve multi-signal integration and processing in living cells for

diagnostic, therapeutic and biotechnology applications 1. **Scientists Are Using CRISPR To Program Living Cells**
Living Circuits. Thanks to projects like Elon Musk's Neuralink, a future in which humankind merges with machines is on everyone's minds. While a brain computer interface (BCI) like the one Musk is proposing would involve making a computer function as part of a human body, other researchers are taking an opposite route. **Synthetic and Natural Analog Computation in Living Cells**

The relatively low-precision environment of cells makes analog computation efficient. Cells use analog and collective analog strategies to compute in an energy-efficient way. R. Sarpeshkar, *Analog Synthetic Biology*, Phil Trans. Royal Soc.

Computation in Living Cells - Gene Assembly in Ciliates ...

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Researchers perform DNA computation in living cells ...

Researchers perform DNA computation in living cells
Date: July 10, 2013 Source: North Carolina State University Summary: Chemists have performed a DNA-based logic-gate operation within a human

Gene circuits in live cells can perform complex ...

MIT researchers have developed a technique to integrate both analogue and digital computation in living cells, allowing them to form gene circuits capable of carrying out complex processing operations.