Seth Lloyd
Quotes

Information, Computer, Law, Order, Thinking, Sex, Quantum, Views, Believe, Dynamics, Simple, Break, Digital, Hijacking, Capacity, Energy, Mechanic, People, Viruses, Mean

All physical systems can be thought of as registering and processing information, and how one wishes to define computation will determine your view of what computation consists of.

~Seth Lloyd

I have not proved that the universe is, in fact, a digital computer and that it's capable of performing universal computation, but it's plausible that it is.

~Seth Lloyd

One of the things that I've been doing recently in my scientific research is to ask this question: Is the universe actually capable of performing things like digital computations?

~Seth Lloyd

Computers are famous for being able to do complicated things starting from simple programs.

~Seth Lloyd

Nothing in life is certain except death, taxes, and the second law of thermodynamics.

~Seth Lloyd

The history of the universe is, in effect, a huge and ongoing quantum computation. The universe is a quantum computer.

~Seth Lloyd

Thinking of the universe as a computer is controversial.

~Seth Lloyd

There are considerable advantages to using many degrees of freedom to store information, stability and controllability being perhaps the most important.

~Seth Lloyd

Of course, not everybody's willing to go out and do the experiments, but for the people who are willing to go out and do that, - if the experiments don't work, then it means it's not science.

~Seth Lloyd

In order to figure out how to make atoms compute, you have to learn how to speak their language and to understand how they process information under normal circumstances.

~Seth Lloyd

Indeed, as the above calculation indicates, to take full advantage of the memory space available, the ultimate laptop must turn all its matter into energy.

~Seth Lloyd

If you take a more Darwinian point of view the dynamics of the universe are such that as the universe evolved in time, complex systems arose out of the natural dynamics of the universe.

~Seth Lloyd

The amount of information that can be stored by the ultimate laptop, 10 to the 31st bits, is much higher than the 10 to the 10th bits stored on current laptops.

~Seth Lloyd

It's also a reasonable scientific program to look at the dynamics of the standard model and to try to prove from that dynamics that it is computationally capable.

~Seth Lloyd

Quantum mechanics is weird. I don't understand it. Just live with it. You don't have to understand the nature of things in order to build cool devices.

~Seth Lloyd

Yes, I am a quantum mechanic! Those darn quantum computers break all the time.

~Seth Lloyd

When it comes to their capacity to screw things up, computers are becoming more human every day.

~Seth Lloyd

If you wanted to build the most powerful computer you could, you can't do better than including everything in the universe that's potentially available.

~Seth Lloyd

Bits of ignorance are like viruses that are copied and spread by interaction.

~Seth Lloyd

Science consists exactly of those forms of knowledge that can be verified and duplicated by anybody.

~Seth Lloyd

At some point, Moore's law will break down.

~Seth Lloyd

Of course, one way of thinking about all of life and civilization is as being about how the world registers and processes information. Certainly that's what sex is about; that's what history is about.

~Seth Lloyd

Every physical system registers information, and just by evolving in time, by doing its thing, it changes that information, transforms that information, or, if you like, processes that information.

~Seth Lloyd

Another feature that everybody notices about the universe is that it's complex.

~Seth Lloyd

Some folks think life and technology and mind can keep expanding forever. Others say it can't. We are still not clear on that.

~Seth Lloyd

Meaning is like pornography, you know it when you see it.

~Seth Lloyd

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