

**To:** Jeffrey Epstein[jeevacation@gmail.com]  
**From:** Neil Gershenfeld  
**Sent:** Sun 12/8/2013 3:12:14 PM  
**Subject:** Re:

In dividing labor, I'm interested in creating the substrates for asking questions like that; Ed/Sebastian/Judith/... will be good for the strategies.  
I'll also include in the ping an optimization guru.

I know Seth's work (and Seth) well.

On Sun, Dec 8, 2013 at 10:08 AM, Jeffrey Epstein <jeevacation@gmail.com> wrote:

great . talk and paper. . i saw you showed seth lloyds paper , ? system assumes unlimited resources. even though each calculation is pico scale . no competition . no evolution. analog music and its harmonies ( second order derivatives of the fundamental ) carry more free info . not genetic algorithms as they don't really compete. true biology involves camoflauge, as a strategy. lets design somthing that itself tries to hide from being destroyed. turning itself off to play dead. . change its topology to mimic something else , have the shapes battle it out for energy efficiency including sacrificing some of the group for the benefit of the whole. ie boundary layers creating turbulence at the right moment. second order algorithms, ( electric field generated by the folded protein . not merely the shape key. ). even your token scalable computer, was at heart linear, as opposed to a topological space that could / should morhp into the solution.

On Sun, Dec 8, 2013 at 9:28 AM, Neil Gershenfeld <[REDACTED]> wrote:

If you get a chance to read it, I wrote that paper as a manifesto for the project. The idea is to make software look like hardware, rather than hide the difference and pretend they're unrelated. Think of this as the substrate for brain-building.

Neil

On Sun, Dec 8, 2013 at 9:26 AM, Jeffrey Epstein <jeevacation@gmail.com> wrote:

I would like to hear more when you have time. computing as compared to calculating?. . relationships as compared to equivalence?. Hillis in the early days wanted a machine that was proud of him.

On Sun, Dec 8, 2013 at 9:22 AM, Neil Gershenfeld <[REDACTED]> wrote:

Did I send you this paper:

<http://cba.mit.edu/docs/papers/11.12.Computing.pdf>

and talk:

<http://www-03.ibm.com/ibm/history/ibm100/us/en/ideas/oct2011watson.html>

? My real interest in thinking about thinking is the mechanisms -- I'm increasingly convinced that there needs to be a do-over of all of computing.

Neil

On Sun, Dec 8, 2013 at 9:17 AM, Jeffrey Epstein <[jeevacation@gmail.com](mailto:jeevacation@gmail.com)> wrote:

either is fine. what would you need to fulfill the popper definition of falsifiable. .  
masquerade is a deceptive strategy. easily proven to be a false signal. . again the observer,  
of the interaction. has the more difficult problem as he sees both. of determining, which  
image is real.

On Sun, Dec 8, 2013 at 8:54 AM, Neil Gershenfeld <[REDACTED]> wrote:

sure, although I was going to include him in an intro to the whole group we sketched,  
could follow from that

On Sat, Dec 7, 2013 at 8:16 PM, Jeffrey Epstein <[jeevacation@gmail.com](mailto:jeevacation@gmail.com)> wrote:

can you introduce me to noam

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