

To: Charles L. Harper Jr. [REDACTED]
From: Jeffrey Epstein
Sent: Fri 11/12/2010 2:49:03 AM
Subject: Re: Very interesting research area on the evolution of deception

The signals, from one cell to another, are the things that undergo the first evolution or co-evolution, the eavesdroppers, or free riders, get the benefit without cost. The deception or code, keeps the predator at bay, (misdirection, camouflaue, mimickry)// the alice -bob dynamic, is what I want. I need code theory experts, with a biological understanding. Not database mining, crypto's who want to understand origins of life.

On Fri, Nov 12, 2010 at 2:57 AM, Charles L. Harper Jr. [REDACTED] wrote:

Dear Jeffrey,

Quick note:

I have done a bit more research on one area you mentioned to me last week.
Darwin himself wrote a book on deception in orchids:
"On the various contrivances by which orchids are fertilized by insects." (1885)

I have discovered that there is a rich and broad-ranging contemporary research literature in this topical area.

(I've found hundreds of papers as well as overview books, gene databases, etc.)
Apparently, the rate of speciation-evolution in orchids having to do with food and sexual deception,
and with plant-pollinator pairing and co-evolution is very rapid. It seems to be a rapidly expanding research field
that is seriously connected into evolutionary theory and plant genetics.

The topic is not (yet) connected in any way to issues in cryptography. However, I note extensive work on gene complexes called "MADS-box" genes in orchids. This kind of work relates to one of the significant research frontiers I mentioned: systems biology and evolution towards understanding the dynamics of variation:
how does a plant specoes "learn" to re-create insect sex phermones as well as insect shapes?
(Probably you will know Marc Kirschner at Harvard, who is a key pioneer in systems biology and research on the "evolution of evolution" dynamics of variation).

I have identified some serious plant geneticists working in this arena.

I think there may be potential to connect with innovation agendas in cryptography pursuing "nature inspired" approaches.
For example, the work of the cryptologist John A. Clark (See: <http://www-users.cs.york.ac.uk/~jac/CV.pdf>):

Paper: "Nature-Inspired Cryptography: Past, Present and Future." (2003) and

Paper: "Fusing Natural Computational Paradigms for Cryptography:
Or, How to Create Quantum Solvable Cryptographic Problems with Heuristic
Search." (2006)

This note relays a quick pass only into the literature to report that there seems to be a lot there
that looks seriously interesting.

Allbest,

Charles Harper

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