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**From:** Joscha Bach [REDACTED]  
**Sent:** Wednesday, May 9, 2018 4:03 AM  
**To:** Jeffrey Epstein  
**Subject:** Re:  
**Attachments:** signature.asc

I =tarted looking into it. Talk tomorrow?

On May =, 2018, at 9:55 PM, jeffrey E. <jeevacation@gmail.com> wrote:

now.? or read trivers on genetic conflict

On Tue, May 8, 2018 at 11:44 AM Joscha Bach = [REDACTED] >>  
wrote:

There is probably an evolutionary algorithm that describes =he competition of the neural wirings during the formation of our =rains, i.e. in the development of every individual. Not sure if there =s an equivalent of to male/female sexual selection, and what it would =ook like!

On May 8, 2018, at 8:33 AM, =effrey E. <jeevacation@gmail.com> <mailto:jeevacation@gmail.com> wrote:

trivers genetic competition = male female genes. in the adult

On =ue, May 8, 2018 at 2:52 AM Joscha Bach <[REDACTED]> wrote:

I =m still trying to understand your question.

- What do you mean by genetic conflict =n a single individual?
- What do you mean by =achine state?

Perhaps you refer to a cybernetic regulation paradigm? =alentino Braitenberg suggested to understand AI from a regulation =erspective: feedback loops to approach a target state (homeostatic =quilibrium). The behavior regulation can be described with payoffs =cross many sub-behaviors (which Minsky called agents and agencies). =henever you get a situation where the local cost functions lead to a =ash equilibrium that is incompatible with the global goals of the =rganism, you introduce a higher level regulation that imposes offsets =n the payoff matrices of the lower level agents. This leads to the =ormation of an internal governance hierarchy.

I =hink that this was the core idea of Rodney Brooks' subsumption =rchitecture. (Eventually, Brooks' work did not pan out, he =tarted building Roombas and lawn movers and became an AI =essimist.)

On May 7, 2018, at 9:17 PM, jeffrey E. <jeevacation@gmail.com> wrote:

my question relate to =he metabphor of genetic conflict in a single indiv , is  
=here an equivalent . machine internal competition

On Mon, May 7, 2018 at 8:06 PM Joscha Bach <[REDACTED]> wrote:

I =hink that the whole game is internal. All our pleasure and pain are =caused by satisfying or frustrating our needs, which are (roughly =peaking) implemented in our reptilian brain. Our neocortex is modeling =hese needs as purposes, so we can regulate our behavior for satisfying =ur needs.

For =example, the physical pain, and hunger and thirst exist on the level of =eeds, and survival is a purpose, a kind of modeling abstraction, as are =ood and drink.

Many of our purposes are outside of =he organism, such as relationship purposes, and social purposes. Even =ur aesthetic purposes (like Jeffrey enjoying an intellectual standoff =etween Bannon and Summers) are not really related to the =rganism.

While =he needs are somewhat hardcoded, our reaction to them is not (we can =odulate pain and pleasure experiences, we can route our regulation =round satisfying our needs, and we can repurpose our needs for =ompetence, dominance, affiliation, and aesthetics for almost arbitrary =oals. By changing the regulation goals (which is always internal to our =ind) we change the payoff matrix.

On May =, 2018, at 8:43 AM, jeffrey E. <jeevacation@gmail.com> wrote:

i posit that thre is an internal game with =ts own payoff matrix , separate from the external = is there a machine internal state =quivalent.

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