
From: Joscha Bach [REDACTED]
Sent: Tuesday, May 8, 2018 6:53 AM
To: Jeffrey Epstein
Subject: Re:
Attachments: signature.asc

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

my question relate to the metabphor of genetic conflict in a =ingle indiv , is there an equivalent . machine internal =ompetition

On Mon, May 7, 2018 at =: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 =nternal game with its own payoff matrix , separate from the =xternal .
is there a machine internal =tate equivalent.

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