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**From:** Joscha Bach <[REDACTED]>  
**Sent:** Monday, January 21, 2013 1:58 PM  
**To:** Jeffrey Epstein  
**Subject:** Re:

It might be a question of putting the parts together; the minimal components would probably be the false belief task (the representation that others may believe something that is false, which has been demonstrated non-verbally in 15-month olds) with basic verbal ability and autonomous goal-seeking behavior. Each one has been done already, but that does not mean that the resulting system is generally intelligent. It merely learns how to deceive (ie necessary but not sufficient).

Ron Arkin from Georgia Tech (who is mostly known for discussing the ethics of military robots) has also built a bunch of simple robots that compete for limited resources and develop deceptive behavior to gain an advantage.

The literally-minded Turing Test people that crowd around the Loebner prize or most human-like behavior are probably not in the game for deceptive behavior, though. Their systems are usually not intentional, i.e. they could fake their fakery, using cleverly pre-scripted dialog strategies.

I would probably start from the other direction, i.e. the premise that deceptive behavior is an emergent quality of any system that has the explicit goal of changing the beliefs of others to further its own aims. The idea that the induced beliefs are actually correct would need to be added on top of that. As soon as a system switches from signalling of internal states towards true communication (the goal-directed creation of beliefs in others), we will have deceptive systems.

Most AI research apparently ignores this, because they start out with applications that benefit from total cooperation (all agents have compatible goals, like cars that should not bump into each other, robotic ants that transmit their respective states, soccer playing robots that broadcast their positions among team mates).

Cheers,

Joscha</iv>

I have seen any proposals that would like to attain 2 and three year old level intelligence,, I have never seen as a kind of perverted turing test suggesting that the system should lie. ( a characteristic of real world 2 year olds)

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