Review of: "Artificial Consciousness: Misconception(s) of a Self-Fulfilling Prophecy Nobody Wants"

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Potential competing interests: No potential competing interests to declare.

I think that this paper should score highly, even for the summary in section 7. The review list however is strongly oriented to the biological side. Is there a distinction between intelligence and consciousness? Your introduction states that language is not an indicator of consciousness, but is it an indicator of intelligence? Also, could it be largely pre-programmed, where the brain contains structures that are inherently compatible with natural language? So if it can then work mostly on automatic, retrieving the structure again, the conscious level can be less.

Then section 1, correct behaviour is maybe an indicator of intelligence? Is it possible to consider the nervous system to be the conscious, with the senses? I could note a lot of my own papers here, but one would be:

Greer, K. (2021). Is Intelligence Artificial? Euroasia Summit, Congress on Scientific Researches and Recent Trends-8, August 2-4, The Philippine Merchant Marine Academy, Philippines, pp. 307 - 324.

So it is like the senses passing this information to the brain, which 'intelligently' processes it, maybe triggering some feedback in the rest of the nervous system.

Section 2 - but how is the field read and interpreted? Maybe the brain field would be like another input sense, but you may need a new sense for it to transfer from one human to another?

Section 3 - processing intormation gives you some sort of result. So what is conscious for? If it gives you some sort of result, is that the same or different? I think that there may be some confusion in this section about intelligence and consciousness. As you state, can most of the processing be 'silent' and so it runs in the background but is not fully formed ideas. It is only when fully formed ideas are realised that they are brought into the conscious level. But then the process is not unusual.

Section 5 - 6, again, is plasticity intelligence more than consciousness, and it can be incorporated into brain structures. Good point about the ART and cell ordering, but ChatGPT, for example, has shown that if the system is large enough, it can also produce 'emergent properties' that are not so predictable.

Section 7 - I like the summary. As you state: 'As long as this threshold of statistically significant coincidence is not attained, representations processed in the resonant circuitry would remain non-conscious or pre-conscious.' I don't know about the rest of this section, but if memories are in some way distributed or broken up, then parts of them can be shared and parts can be activated without the whole memory being realised. You also write about a locus to the conscious, so please remember about the distributed nature of the brain.

Section 8 - Yes, do we need AI at all. Is finding answers part of our own evolution? It might be good to consider it in terms of the safety of the machine as well. Buddhism I think has some overlap with automatic processes as well?