

Peer Review

Review of: "Intelligence Sequencing and the Path-Dependence of Intelligence Evolution: AGI-First vs. DCI-First as Irreversible Attractors"

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The paper is interesting. It addresses the following issue: *Does intelligence become structurally constrained by the epistemic model it uses to perceive the world.*

The proposed modelling and its implementation might be improved by developing a specific aspect so-called "T" representing transformations that intelligence applies to itself over time. In my opinion, a key issue is how to formalize T in such a way as to possibly include a copy of the whole memory of a system (i.e., reflexivity). This implies dealing not only with functions (that are one-one or many-one relationships), but also with relationships that are of the type one-many (these are not functions). To go further with this self-inclusion process, I would suggest a paper called "Constructing New Representations and the Implications for Decision Making Theory - Learning from Archimedes". Thus, the phase transitions should be rethought in such a way as to be well suited to formalize the evolution of intelligence.

All my best,

Declarations

Potential competing interests: No potential competing interests to declare.