

Review of: "Towards Modeling Artificial Consciousness"

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The model lacks a few important elements for a model of artificial consciousness (AC). While the idea of having multiple Neural Networks interacting and competing points in the right direction (based on the literature as reviewed), the article does not give details for how this interaction should happen, and does not give motivation, why it should happen in a particular manner. The model is unclear about this interaction, also because some of the modeling details are not well defined. E.g. what is ξ and what is n_{ξ} ?

Furthermore, there is no good argument, why this model should be useful model for AC. Assume, this model is simulated and we see that certain tasks sometimes out-compete others in their activities (dominate the “global workspace”), what in the model and its outputs would justify that we see AC emerging? To me it seems simply a mechanism for deciding priorities. In computer science theory and practice (e.g. operating systems) priority schemes have been studied at length, but authors never claim the emergence of AC or report to have observed it. As long as this key link is missing, one should not claim to model AC but rather describe the model in functional and operational terms, e.g. as a priority scheme in decision making.