Review of: "The functional unit of neural circuits and its relations to eventual sentience of artificial intelligence systems"

Krystyn Sosada[1]

1 Medical University of Silesia

Potential competing interests: No potential competing interests to declare.

I rate the article positively. In times of rapid proliferation of artificial intelligence systems, the attempt to find analogies between human brain neural circuits and artificial structures is important and useful. The question of whether something akin to sentience or even self-awareness will emerge in artificial intelligence systems concerns many researchers.

The authors attach great importance to Johnjoe McFadden's "conscious electromagnetic information field theory (cemi)", which suggests that conscious perception requires not only a specific process but also the existence of a spatial object. The realization of such a spatial object is possible thanks to the brain's electromagnetic field.

The article contains data that allow for reflection on whether the similarity of natural feedback connections, existing in brain tissue, to backpropagation connections in A.I. systems is significant for these considerations.

I recommend this article to both authors in the field of neural (biological) sciences and designers of artificial intelligence systems.

Krystyn Sosada