

Review of: "Brain Patterns Shaping Embodied Activities of Their Bodily Limbs in Perception and Cognition"

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Potential competing interests: No potential competing interests to declare.

Hi,

First of all, I would like to congratulate the authors for this nice and useful work. I think that presenting examples from daily life and experiments in the study is beneficial in terms of concretizing the defended thesis and making it more understandable.

I will make a small suggestion that I believe can contribute to making the article more inclusive and valid. As you have pointed out, variations in embodied actions are not constitutive of these experiences, as they do not lead to necessary variations in sensory experience. But it is a component that influences the constitutive elements of these experiences. In addition to embodied actions, the role of interaction with the environment, nutrition, experience, education and genetic factors cannot be denied in the formation of sensory experiences, schemas in the brain and related brain patterns. Yes, Martins still knew how to play the piano when he lost both arms. However, he gained this knowledge through the common interaction of the factors I have just mentioned. Neural networks in Martins' brain were woven as he played the piano and memorized the notes. For this reason, it may be narrow-minded to explain the factors that create perception only with the relevant brain patterns. Therefore, instead of rejecting the principles advocated by enactivists, it may be more useful to argue that brain patterns emerge from the common interaction of the factors mentioned.

I would be very happy if I could contribute to your research. I wish you good luck and success in your work.

Kind regards

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