

Embodied perception and space categorisation

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Despite the appearance of a continuous and homogeneous external world, spatial perception is necessarily constrained by the spatial resolution of the sensory systems but also by the pre-reflective representations of the body. Recent empirical data in cognitive neurosciences will be presented that suggest that multidimensional categorisation of perceptual space depends on body representations at both the experiential and functional level. A neuro-cognitive model based on the integration of afferent and efferent information will be presented, which suggests that action simulation and associated predicted sensory consequences may represent the underlying principle of pre-reflective representations of the body involved in space categorisation and selection for action.

