



The Role of the Sensorimotor System in Cognitive Functions

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Message from the Guest Editor

The sensorimotor system may contribute to the cognitive processes necessary for interaction with the world. A series of neurophysiological, brain imaging, and behavioral studies have brought evidence of the involvement of the sensorimotor system during different cognitive functions: action perception, space coding, attention, memory, beat perception, numerical abilities, speech perception and production, pain empathy, and many others. However, few of them have shown that this relationship is causal, and that a specific injury to the sensorimotor system determines a specific cognitive deficit. Furthermore, almost all of these studies have underestimated the theoretical implication of the fact that the sensorimotor involvement is present not only during the processing of biological stimuli, but also during the processing of non-biological ones.

This Special Issue aims to bring together research on the involvement of the sensorimotor system in cognitive functions. Original research articles and reviews are welcome. Research areas may include the following: experimental psychology, developmental psychology, neuropsychology, neurophysiology, brain imaging and computer science.





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Message from the Editor-in-Chief

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