Special Issue

Neural Mechanisms Underlying Sensorimotor Learning and Plasticity: Novel Advances and Future Perspectives

Message from the Guest Editor

Sensorimotor learning is the process by which we acquire and refine our ability to perform tasks that involve both sensory perception and motor control. It consists of learning how to coordinate sensory information (e.g., sight, touch, and proprioception) with motor actions to achieve specific goals or tasks. Despite the vital importance of sensorimotor learning for correct brain functioning, the plastic mechanisms underlying it at a neurophysiological level are still debated and have been underexplored. As a common feature, the works in this Special Issue should explore sensorimotor learning and plasticity to better establish the anatomo-functional underpinnings of these phenomena, integrating different neuroscientific methodologies to deepen their functional (or dysfunctional) mechanisms. These explorations could be from a neurophysiological or cognitive perspective, focusing on both the healthy and the damaged central nervous system. We welcome the submission of studies using non-invasive brain stimulation techniques, electroencephalography, and behavioural paradigms. Narrative reviews or meta-analyses investigating the state of the art of this topic are welcomed, too.

Guest Editor

Dr. Giacomo Guidali
Department of Psychology, University of Milano-Bicocca, Milan, Italy

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Brain Sciences
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
brainsci@mdpi.com

mdpi.com/journal/brainsci

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

Editor-in-Chief

Prof. Dr. Stephen D. Meriney
Department of Neuroscience, University of Pittsburgh, Pittsburgh, PA 15260, USA

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