

Special Issue

Predictive Processing in Brain and Behavior

Message from the Guest Editor

Prediction is a fundamental principle of brain function, shaping how organisms anticipate, interpret, and adapt to dynamic environments. This Special Issue will provide a broad panorama of research addressing predictive mechanisms, spanning from neural computations to behavioral adaptations. We welcome contributions that explore predictive processing through diverse methodologies, including neurophysiological recordings, neuroimaging, psychophysics, eye-tracking, motor control paradigms, and computational modeling. Topics of interest include sensory prediction errors, anticipatory eye and body movements, sensorimotor adaptation, learning under uncertainty, and the neural substrates of prediction across cortical and subcortical systems. By combining behavioral and neural perspectives, this Special Issue will highlight how predictive coding shapes perception and action. We invite the submission of original research articles, reviews, and perspectives that contribute to this growing field. Together, these contributions will shed light on how predictive systems shape behavior in complex and dynamic environments

Guest Editor

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Message from the Editor-in-Chief

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.

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