Special Issue

Electrophysiological Approaches to Cognitive Neuroscience

Message from the Guest Editors

Electroencephalography (EEG) has long been a cornerstone method for exploring the temporal dynamics of brain activity, offering unique access to the neural substrates of cognition. Over recent decades, the integration of advanced analytic approaches—such as source localization, machine learning, and multimodal imaging—has transformed EEG into a powerful and versatile tool for investigating complex neurocognitive functions. This Special Issue aims to showcase cutting-edge research employing EEG to elucidate the neural mechanisms underlying perception, attention, memory, language, decision-making, and related cognitive domains. We particularly encourage contributions that combine EEG with complementary neuroimaging or brain-stimulation techniques, or that introduce innovative computational, analytical, or theoretical frameworks. We invite original empirical studies, methodological advancements, and comprehensive reviews that contribute to the theoretical understanding and translational applications of EEG in neurocognitive science, encompassing both healthy and clinical populations.

Guest Editors

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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

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