Special Issue

New Trends in Neuroimaging and Cognition

Message from the Guest Editors

Over the past two decades, advances in neuroimaging technologies have fundamentally transformed the study of cognitive function and change. Structural, functional, diffusion, and molecular imaging modalities have enabled increasingly precise characterization of brain connectivity, morphology, and pathology, thereby enhancing our understanding of the biological mechanisms underlying cognition. More recently, the integration of advanced analytical approaches—including longitudinal modeling, multimodal data fusion, and machine learning and artificial intelligence—has accelerated progress in prediction, early biomarker discovery, identification of clinically meaningful endpoints, and development of intervention targets. This Special Issue aims to highlight advanced neuroimaging techniques in both human and animal studies of cognition, as well as advanced analytical methods that enhance understanding of the complex nature of cognitive and behavioral outcomes. Equally important, we seek contributions addressing technical challenges in neuroimaging research. We welcome original research articles, as well as review and opinion papers, that align with the scope of this Special Issue.

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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.

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