# Special Issue

# Brain Functional Connectivity: Prediction, Dynamics, and Modeling—2nd Edition

# Message from the Guest Editor

This Special Issue is a continuation of our previous Special Issue "Brain Functional Connectivity: Prediction, Dynamics, and Modeling". The brain is one of the most complex and mysterious systems in the world. Functional connectivity can be studied in both the frequency and time domains using methods such as coherence, correlation, and artificial neural networks. Revealing the functional connectivity between different brain regions can help us understand the mechanisms underlying information processing and decision-making during cognitive tasks. This knowledge can also address practical and challenging problems in various fields, including healthcare, medicine, biomedical engineering, brain-machine interfaces, and cognitive sciences. This Special Issue aims to collect the best papers on recent advances and perspectives in brain connectivity research, encompassing theoretical modeling, experimental studies, and the analysis of neurophysiological data obtained using various brain imaging modalities.

#### **Guest Editor**

Prof. Dr. Alexander N. Pisarchik

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## Deadline for manuscript submissions

30 March 2026



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# Message from the Editor-in-Chief

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# **Editor-in-Chief**

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