Special Issue

Bridging Multimodal Neurodynamic Sensor Data

Message from the Guest Editors

Electro-/magnetophysiological (EEG, MEG) and hemodynamic (fMRI) measures of brain function offer compromises between spatial and temporal resolution, which limit their applicability in studies of how the human brain works in health and disease. Researchers have pursued ways to mitigate these limitations by using analysis and/or data acquisition approaches that combine the high temporal (MEG, EEG) and spatial (fMRI) resolution of different techniques. Despite the significant advantages offered by this multimodal imaging (MM) approach, cross-modal artifacts and other caveats have limited their widespread use. The purpose is a broad appeal for a deeper investigation and development of new MM tools and applications. Contributions are invited from researchers engaged in at least two modalities (EEG, MEG, ECoG, sEEG, and fMRI) and applying novel techniques that combine the MM data of neural activity to reveal brain dynamics. The Special Issue will also welcome application manuscripts in the fields of MM resting-state connectivity, neural decoding, cognition and perception studies and also focus on the latest technological MM advancements and tools, and the safety of MM imaging.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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