Special Issue

Advances in EEG/ MEG Source Imaging

Message from the Guest Editor

Magnetoencephalography (MEG) and electroencephalography (EEG) provide unprecedented means to perform non-invasive imaging of brain functions with a spatiotemporal resolution that enables a large variety of informative neuroscience findings. The ultimate goal of MEG/EEG studies is the reconstruction of the distribution of neural currents that is in accordance with the measured multi-channel signal distribution. Besides the challenge posed by the non-unique nature of the MEG/EEG inverse problem, there are other complications that have prompted method developers to produce mathematical methods and algorithms ranging from general-purpose analysis tools to highly specific methods that aim at increasing robustness. With the recent rapid developments in inverse methodology, connectivity models, and new MEG sensor technology that may revolutionize our ability to capture previously undetectable fine details of brain signals, a review of the most novel source imaging methods is timely. In this Special, we would like to invite contributions demonstrating the most recent insights leading to the improved accuracy and robustness of source reconstruction based on multichannel MEG/EEG data.

Guest Editor

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