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Part B: Statistics

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Special Issue on

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Statistics in neuroimaging is a challenging field due to many factors, including complex spatial and temporal patterns and correlations due to the complexity of the anatomy and function of the brain itself, as well as the many preprocessing steps that ultimately change the structure of the data. Over the past 20 years, statisticians and neuroimagers have been making strides into understanding and resolving these complexities. Yet, faster than problems are solved, new questions arise. In this special issue on Neuroimaging we focus on new and novel statistical theory, methods and applications that aim to resolve cutting-edge problems in Neuroimaging.

We welcome submissions that cover all aspects of statistical analysis of Neuroimaging data. These include, but are not limited to, the statistical analysis of structural and functional MRI (fMRI), PET, EEG, MEG, optical imaging methods, network analysis, and resting state fMRI. We are interested in theoretical developments, novel statistical methods and models, machine learning algorithms, big data methods, and applications of existing statistical methods to new problems.

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