



Computational NeuroEngineering (CoNE) Laboratory @ HYU

BME Dept., Hanyang-U

Facilities and Research Networks

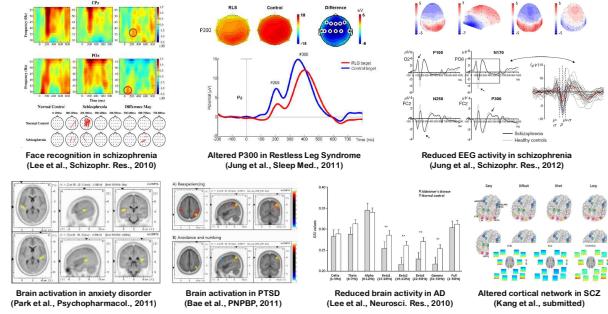
Facilities & Networks



Research Activities

Diagnosis of Psychiatric Diseases and Neurological Disorders

Noninvasive diagnosis of various neuropsychiatric & neurological disorders based on EEG/MEG analysis



Research Activities

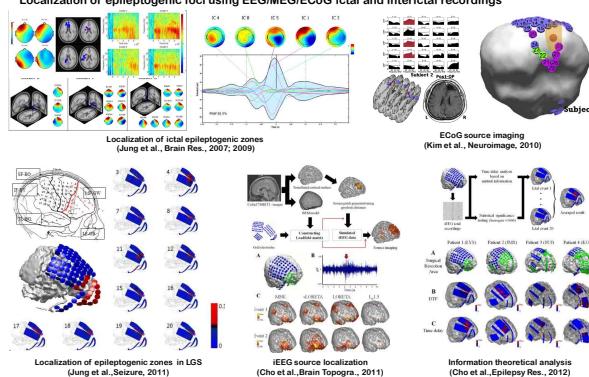
Brain-Computer Interface (BCI)

Development of new paradigms for EEG and NIRS-based BCI systems, Enhancement of BCI performance



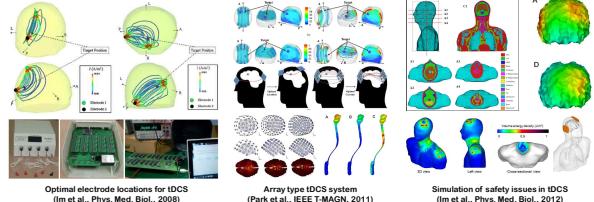
Noninvasive Epileptogenic Source Localization

Localization of epileptogenic foci using EEG/MEG/ECoG ictal and interictal recordings



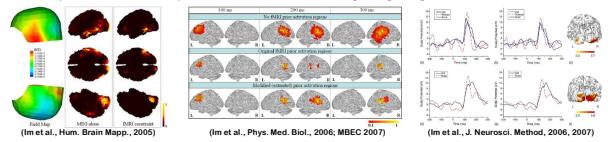
Noninvasive Brain Stimulation

Design and implementation of noninvasive brain stimulation systems



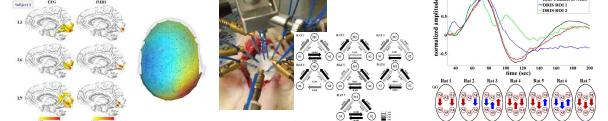
Multimodal Neuroimaging

Development of new techniques for multimodal neuroimaging, integrating fMRI/MRI and EEG/MEG



Functional Brain Mapping: Connectivity & Causality

Human brain mapping, Causality and connectivity analysis

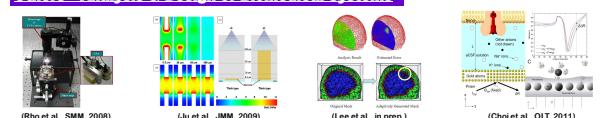


Real-time Brain Imaging

Real-time cortical rhythmic activity monitoring system and its potential application to a BCI system



Others - Analysis & Design of Biomedical Systems



Contact Information

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