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3.3. Invasive Brain Imaging, Fundamentals of Cognitive Neuroscience Course, Session 3, Part 3 Peter Hagoort Natus EEG Webinar: Status Epilepticus ~~Electrical Neuroimaging~~

Resting state and neurocognitive networks A publication entitled “ A default mode of brain function ” initiated a new way of looking at functional imaging data. In this PET study the authors discussed

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the often-observed consistent decrease of brain activation in a variety of tasks as compared with the baseline.

~~Electrical neuroimaging in the time domain (Chapter 6 ...~~

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Today, there is a greater interest

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in the marketing world in using neuroimaging tools to evaluate the efficacy of TV commercials. This field of research is known as neuromarketing. In this article, we illustrate some applications of electrical neuroimaging, a discipline that uses electroencephalography (EEG) and intensive signal processing techniques for the evaluation of marketing stimuli.

~~Understanding the impact of TV commercials: electrical ...~~

Electrical Neuroimaging - edited by Christoph M. Michel July 2009. We use cookies to distinguish you from other users and to provide you with a better experience on our websites.

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## ~~Frontmatter – Electrical Neuroimaging~~

Because of the unique high temporal resolution of the EEG, electrical neuroimaging not only concerns the possible neuronal generator of the scalp potential at one given moment in time, but also the possible generators of rhythmic oscillations in different frequency ranges.

~~From neuronal activity to scalp  
potential fields (Chapter ...~~  
Electrical Neuroimaging Group of Geneva Hospital and University (Switzerland) develops models and methods for the study of the bioelectromagnetic activity (brain heart, etc) and the information contained on these signals. Main applications: Real time and off line



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EEG analysis as for BCI,  
Neurorehabilitation or mind  
reading and epilepsy

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Magnetoencephalography (MEG) is an imaging technique used to measure the magnetic fields produced by electrical activity in the brain via extremely sensitive devices such as superconducting quantum interference devices (SQUIDs) or spin exchange relaxation-free (SERF) magnetometers. MEG offers a very direct measurement of neural electrical activity (compared to fMRI for example) with very high temporal resolution but relatively low spatial resolution.

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~~Neuroimaging – Wikipedia~~

The high-density ERPs were analyzed with electrical neuroimaging methods that focus on differences of the scalp potential fields evoked by stimuli in the two groups (Michel et al., 2001, Michel and Murray, 2012, Murray et al., 2009). This reference-free method is based on a pattern analysis approach that identifies ERP components in terms of subsequent periods of stable potential fields, represented by maps, and tests whether these potential maps are different between conditions and groups.

~~Face and gaze perception in  
borderline personality ...~~

Electroencephalogram (EEG) and  
event-related potential (ERP)

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recordings consist of one value for each sample in time and for each electrode.

~~Scalp field maps and their characterization (Chapter 2 ...~~

Electrical neuroimaging is based on the analysis of brain electrical activity recorded from the human scalp with multichannel EEG. It offers enormous potential for the dynamic mapping of brain functions, and for the non-invasive diagnosis of neurological and psychiatric conditions.

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electrical activity recorded from the human scalp with multichannel EEG. It offers enormous potential for the dynamic mapping of brain functions, and for the non-invasive diagnosis of neurological and psychiatric conditions. Page 9/25

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Angelini M, Calbi M, Ferrari A, Sbriscia-Fioretti B, Franca M, Gallese V, et al. Motor inhibition during overt and covert actions: an electrical neuroimaging study. PLoS One. 2015; 10:e0126800 doi: 10.1371/journal.pone.0126800 [PMC free article]

~~Proactive Control Strategies for~~

~~Overt and Covert Go/NoGo ...~~

"Embodied Body Language": An

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## Electrical Neuroimaging

electrical neuroimaging study with emotional faces and bodies By Marta Calbi, Monica Angelini, Vittorio Gallese and Maria Alessandra Umilt ã Cite

~~"Embodied Body Language": An electrical neuroimaging study ...~~  
We aim to improve understanding of how the brain works in health and disease by using the latest neuroimaging techniques to study function and structure of the living brain. Our research advances healthcare by identifying target neural mechanisms for successful treatments or by detecting the factors that increase or decrease the risk of developing mental illness.

~~Neuroimaging — Department of~~

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## Psychiatry

Correction: Proactive Control Strategies for Overt and Covert Go/NoGo Tasks: an Electrical Neuroimaging Study . By Monica Angelini, Marta Calbi, Annachiara Ferrari, Beatrice Sbriscia-Fioretti, Michele Franca, Vittorio Gallese and Maria Alessandra Umilt ...

~~Correction: Proactive Control Strategies for Overt and ...~~

Electrical neuroimaging may shed additional light on this issue because it adds information on the time course of brain processing with millisecond precision, accompanied by concurring source localizations.

~~Frontiers | Electrical Neuroimaging of Music Processing~~

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A fundamental problem in systems neuroscience is how to force a transition from one brain state to another by external driven stimulation in, for example, wakefulness, sleep, coma, or neuropsychiatric diseases. This requires a quantitative and robust definition of a brain state, which has so far proven elusive. Here, we provide such a definition, which, together with whole-brain modeling ...

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