



The Inverse Eeg Problem

By Johannes H. Hne

GRIN Verlag. Paperback. Condition: New. 72 pages. Dimensions: 8.1in. x 5.9in. x 0.2in. Bachelor Thesis from the year 2007 in the subject Computer Science - Miscellaneous, grade: 1.0, Free University of Berlin (Institute of Mathematics and Informatics, Department Bioinformatics), 37 entries in the bibliography, language: English, abstract: Abstract: The inverse EEG problem is a well-studied, ill-posed problem in mathematics and neuroinformatics. Given a record of a limited number of electrodes (e. g. 21) that are placed on scalp, it is the task to estimate a three dimensional distribution of neural currents in the brain. The actual thesis deals with this problem and proposes a probabilistic Bayesian approach that assumes the distribution of neural currents to be heterogeneous - active and inactive regions in the brain are expected. This can be formalized with a mixture distribution. Furthermore, an expectation-maximization (EM) algorithm is presented that performs simultaneous classification and computation of neural currents, given an EEG measurement. Zusammenfassung: Diese Bachelorarbeit thematisiert das inverse EEG Problem. Dies ist ein umfangreich beschriebenes, schlecht gestelltes mathematisches Problem in der medizinischen Visualisierung. Bei einer EEG-Messung werden eine bestimmte Anzahl (z. B. 21) Elektroden an der Kopfhaut angebracht und elektrische Ströme dort detektiert. Das hier beschriebene Problem...



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