

TOPOGRAPHIC MAPPING OF THE BRAIN ELECTRICAL ACTIVITY

R. Murali Shankar and [#]A. G. Ramakrishnan

Department of Instrumentation Technology, S. J. C. E., Mysore 570 006.

[#]Department of Electrical Engineering, Indian Institute of Science, Bangalore 560 012.

ABSTRACT

Topographic mapping is a widely used tool in clinical neurophysiology in order to have a pictorial representation of the measured electromagnetic field on the surface of the skull. This paper presents pseudocolour mapping of electroencephalogram (EEG) in both the time and the frequency domains. A 19-channel EEG signal is analysed. FFT is used to convert the time-domain signal to the frequency domain to obtain power in the delta, theta, alpha and beta frequency bands, respectively, for consecutive epochs. For each band, interpolation is carried out to obtain power at discrete points between the electrodes. Colour map is displayed for individual frequency bands to represent spatial distribution of the power. Here, bilinear interpolation is used because it is computationally simpler and also entails smooth variations in the spatial values. Different colours are used to represent specific ranges of values of power levels. By a similar approach, the amplitude distribution of the EEG on the scalp, at any specific instant of time, is also displayed as a map. Amplitude mapping is used to find the distributions of epileptic seizures. The resolution of the colour map is 80x80 pixels. The system can also display power spectrum of individual channels at regular time intervals. Coherence spectrum, that indicates the correlation in the frequency domain between the EEG activity recorded at different locations on the scalp, is also displayed.

extremely short analysis times (in the range of milliseconds). This type of representation is affected by the fact that the sampling in space (via the standard 10-20 electrodes) may be insufficient. To this end, more number of electrodes could be used, equally spaced over the cortical region of interest, that could be the whole scalp. Usually 32, 64, or even 128 electrodes are used, aiming to reduce the interelectrode distance down to a few centimeters, for recording the electric field. While considering the electrical properties of the biological media from the cortex to the skull, a resolution of 2 cm has been shown to be a good compromise between ignoring the contribution of some portion of the cortex, and receiving the same cortical field contribution at contiguous electrodes. Secondly, interpolation procedures are affected by approximations in the geometrical description of the head (usually modeled as a sphere) and cartographic approximations in projecting a 3-D surface (skull) onto a 2-D space and also assumptions in the interpolation algorithms to compute the field values for the points that lie in between. Nevertheless, such a lack of local precision in the computed map does not affect the power of the representation in giving an approximate pictorial description of the brain activity in different regions. The need for better precision arises when the aim is to map the anatomical sources of the detected potential, which is not the focus of the present paper.

We discuss the development of a package for the colour display of EEG data in time, frequency and spatial domains. Apart from mapping of the EEG data, additional tools like Power-spectral array and Coherence spectral array (COSPAR) are provided for quantitative EEG analysis. This type of EEG analysis is highly sensitive to qualitative transitions in mental state. Some of the subjective transitions are accompanied by observable changes in an appropriate mathematical measure of the correlation between the EEG activity recorded at different locations on the scalp. For quantifying correlations, we have chosen the coherence spectrum, primarily because of its prior use in EEG analysis and its availability as a by product of the Fast Fourier transform (which is used for

Introduction

Advances in computer technology and software have made it possible for sophisticated techniques to be developed in the past 10 years that permit the visualization of the structures and functional processes of the human brain. Unlike the imaging techniques such as X-ray or CT, the Electroencephalographic (EEG) mappings do not portray anatomic structures but the constantly varying spatial distribution of the electrical field generated by the brain. Brain mapping is non-invasive, permitting follow-up examinations to be performed as often as needed, and has

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Topographic Mapping of Brain Electrical Activity Frank H. Duffy, 2013-10-22 Topographic Mapping of Brain Electrical Activity presents the state of topographic mapping It discusses its contributions to brain research It addresses its research and clinical applications It also explains completely the brain electrical activity mapping as a tool used in the diagnosis and treatment of neurological dysfunction Some of the topics covered in the book are the color imaging of scalp somatosensory evoked potential fields visual evoked potential topography spatial analysis of EEG and evoked potential data intra individual changes in EEG during mental performance and changes in transversal coherence The event related desynchronization mapping of visualization of cortical activation patterns is fully covered The spatiotemporal mapping display is discussed in detail The text describes in depth the physical aspects of EEG data as a basis for topographic mapping The human scalp field injection experiments are presented completely A chapter is devoted to the classification strategies for topographic mapping data Another section focuses on the topological factors The book can provide useful information to radiologists neurologists students and researchers Topographic Mapping of Brain Electrical Activity Frank H. Duffy, 1986

Atlas of Brain Mapping Konrad Maurer, Thomas Dierks, 2012-12-06 From its discovery in 1929 by Hans Berger until the late 1960s when sensory visual and auditory evoked potentials were discovered and became popular the EEG was the most important method of neurophysiological examination With the advent of computer technology in the 1980s it became possible to plot the potential fields of the EEG onto models of the scalp This plotting of information as neuroimages followed the structural and functional techniques of Cf MRI PET and SPECf The success of this method which began in the early 1980s has led to the brain mapping of EEGs and EPs being increasingly used for diagnostic purposes in neurology psychiatry and psychopharmacology The pioneers of this method believed in it and were committed to its success However many traditionalists felt that it gave no new information and so regarded the method with scepticism Some found both the coloured maps and the mapping technique misleading which led to unnecessary conflict between mappers and their chromophobic opponents Emotions have run so high that some professional bodies have justifiably adopted guidelines and warned of the misuse of the method Topographic Brain Mapping of EEG and Evoked Potentials Konrad Maurer, 2012-12-06 Imaging procedures have been used for many years and are becoming increasingly important in a number of medical disciplines This is due to recent technological advances primarily computerization The methods employed in CNS diagnostics are collectively referred to as neuroimaging and include procedures for investigating both cerebral morphology and cerebral function such as computed tomography CT magnetic resonance imaging MRI positron emission tomography PET and single photon emission computed tomography SPECT Topographic mapping of electroencephalograms EEG and evoked potentials represents one of the functional procedures and permits topographic imaging of EEG evoked potentials and magnetic fields The latter application includes not only magnetic fields evoked by stimuli relating to different sensory modalities but also

endogenous and motor fields resulting from spontaneous brain magnetic activity as recorded by magnetoencephalograms MEG the magnetic complement of the EEG The advantage of recording electric and magnetic fields over other neuroimaging procedures is that these techniques are completely noninvasive and have extremely short analysis times in the millisecond range The aim of this book is to clarify the current state of this emerging technology to assess its potential for substantive contributions to brain research to delineate areas for further research and over all to envisage clinical applications in disciplines such as psychiatry neurology and neuropsychology

Topographic Mapping of Brain Electrical Activity
Frank H. Duffy, 1936 *Clinical Electroencephalography and Topographic Brain Mapping* Frank H. Duffy, Vasudeva G. Iyer, Walter W. Surwillo, 2012-12-06 Electroencephalography is truly an interdisciplinary endeavor involving concepts and techniques from a variety of different disciplines Included are basic physics neuro physiology electrophysiology electrochemistry electronics and electrical engineering as well as neurology Given this interesting and diverse mixture of areas the training of an EEG technician a neurology resident or an EEG researcher in the basics of clinical electroencephalography presents an uncommon challenge In the realm of technology it is relatively easy to obtain a technically adequate EEG simply by learning to follow a protocol and by correctly setting the various switches on the EEG machine at the right time But experience has shown that the ability to obtain high quality EEGs on a routine day to day basis from a wide variety of patients requires understanding and knowledge beyond what is learned by rote Likewise knowledge above and beyond what is gained by simple participation in an EEG reading is necessary to correctly and comprehensively interpret the record Such knowledge comes from an understanding of the basic principles upon which the practice of clinical EEG is founded principles that derive from the various disciplines cited

[The Cognitive Electrophysiology of Mind and Brain](#) Alberto Zani, Alice Proverbio, 2002-10-10 Cognitive electrophysiology is a very well established field utilizing new technologies such as bioelectric events related potentials ERP and magnetic ERF recordings to pursue the investigation of mind and brain Current research focuses on reviewing ERP ERF findings in the areas of attention language memory visual and auditory perceptual processing emotions development and neuropsychological clinical damages The goal of such research is basically to provide correlations between the structures of the brain and their complex cognitive functions This book reviews the latest findings in the areas of attention language memory visual and auditory perception and brain damage research based primarily on research conducted using ERP recordings Beyond just compiling the knowledge gained from ongoing research the authors also identify outstanding problems in the field and predict future developments Provides an original post cognitive theoretical approach to the investigation of the human mind and brain Presents integrated view of the emotional and cognitive features as well as of developmental features of neurocognitive systems Well illustrated with elegant and original artwork that clarifies complex theoretical and methodological points throughout the text

Topographic Mapping of Brain Activity Ernest S. Barrett, Glenn F. Wilson, TEXAS UNIV MEDICAL BRANCH AT GALVESTON DEPT OF

PSYCHIATRY AND BEHAVIORAL SCIENCES.,1987 The general purpose of this research was to relate topographical mapping of brain electrical activity to performance on several tasks with different cognitive demands A total of 35 subjects were studied Fifteen subjects participated in a linguistic cognitive task Eight subjects participated in exploratory studies of the Sternberg memory task Based on these exploratory studies twelve subjects participated in an experiment in which event related cortical potentials were recorded while they performed the Sternberg task The overall results indicate that brain topography is a potentially powerful technique for relating brain functions to performance on tasks with varying cognitive demands The present results with the Sternberg task for example not only confirmed past research results but also clearly indicated relationships between brain functions and performance on this task that had not previously been shown One example was that a negative event related potential component ERP at 200 ms after the presentation of the stimulus was related to response set performance positive vs negative responses primarily in the left hemisphere and more specifically in areas of the left temporal lobe often involved in memory and or speech reception and articulation These and other results are discussed in the report Keywords Electroencephalography psychophysiology aw Introduction to Brain Topography Peter K.H. Wong,2012-12-06 It had been difficult to find appropriate teaching material for students and newcomers to this field of brain electromagnetic topography In part this is due to the many disciplines involved requiring some knowledge of the physical sciences mathematics neurophysiology and anatomy It is my hope that this book will be found suitable for introducing interested workers to this exciting field Advanced topics will not be covered as there are many excellent texts available Peter K H Wong vii ACKNOWLEDGEMENT My co authors Hal Weinberg and Roberto Bencivenga for their support Richard Hamer for all his early advice Ernst Rodin and Gene Ramsay for their encouragement Wendy Cummings for her assistance Technologists from the Department of Diagnostic Neurophysiology for collecting such excellent data Bio Logic Systems Corp for permission to use some data as illustration and all my friends and colleagues My wife Elke for putting up with me throughout this presumptuous endeavour The manuscript was delivered in camera ready form to the Publisher Illustrations were created using Harvard Graphics and CorelDraw software ix CONTENTS Part 1 Fundamentals 1 1 1 Introduction 1 1 2 Data Acquisition 3 Map Construction 8 Interpolation 12 1 3 Spatial Sampling 16 1 4 Reference and Reference Dependence 20 1 5 Map Display Methods 27 Scaling and Floating Voltage Scales 37 Summary Maps 37 1 6 Identification of Topographic Features 41 1 7 Spike Mapping 51 1 8 Post Processing 61 Analog Front end 62 Digital Filtering 63 Reference Manipulation 65 Statistical Mapping **NIDA Research Monograph** ,1976 *The Treatment of Epilepsy* Elaine Wyllie,Ajay Gupta,Deepak K. Lachhwani,2006 Serving as a reference on the epilepsies this fourth edition provides an overview of seizure disorders and contemporary treatment options It brings together the vital work in the neurosciences genetics electroencephalography pediatric and adult neurology neuropharmacology neurosurgery and psychiatry It also talks about epilepsy surgery Bias of the Computed Evoked Potential Values in Brain Electrical Activity Topographic Mapping

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