

## **Biomedical Engineering Report Paper Example Essay**

### **Event-related EEG Power Modulations and Functional Connectivity Change during Visual Task between Individuals**

Electroencephalography (EEG) is one of the methods used in monitoring the types of activities that takes place in the brain (Mahmoud, Dufor, Merlet, Berrou & Wendling, 2014). However, it is challenging to analyze EEG-based analysis methods due to lack of ground-truth brain activity references (Ferri, Rundo, Bruni, Terzano & Stam, 2007). In this regard, researchers have adapted to use simulated EEG data as opposed to using the actual EEG recordings in studying the effects of the brain. EEG was first applied to humans in the 1920s (Millet, 2001). Since then, the technique has undergone increasing research and development towards its application, which has seen it being utilized in several industries such as clinical setups, neuroscience, cognitive science among other fields (Frey, Daniel, Castet, Hachet, & Lotte, 2016).

The EEG technique is increasing in its application due to its ability to reflect the electrostatic fields occurring primarily as a result of the coetaneous actions of the activity of the variations in the membrane potential of the postsynaptic terminal of a chemical synapse at apical dendrites in the cortical surface of the brain (Yadava, Kumar, Saini, Roy & Dogra, 2017). These synchronous activities are captured by the electrodes that are attached to a human's scalp. In this case, the EEG is used in measuring the specific subset of the activities taking place in the brain (Wendling, Ansari-Asl, Bartolomei & Senhadji, 2009). The ability to regulate particular brain activities enables researchers to find cognitive and affective correlates when running the EEG experiment. Consequently, the mental state of participants under study can effectively be evaluated after the recordings or during the record of the EEG experiment (Zander et al., 2017).

The introduction of visual stimuli helps in affecting the brain activities. As each stimulus is introduced, the emotions of a person are changed, in turn activating the neural circuit of the brain as one response to either a positive or negative stimulus. However, the neutral stimulus tends to have balanced activities in the brain due to balanced tasks taking place in the brain. It should be noted that visual stimuli have the effects of enhancing the activities of the respective sensory cortical areas of the brain that are involved in the coordination of the cognitive resources like attention. Furthermore, EEG has been continuously utilized since it is relatively cheap compared to the other brain monitoring techniques (Krol, Andreessen, & Zander, 2018). In this case, the researchers conducted EEG on different individuals to determine the functional connectivity change during visual tasks. The research used three stimuli to determine the different brain activities based on the emotional mental tasks. The results were then analyzed through the construction of the brain matrices and topography to determine the extent of the connectivity and power of the brain when the three stimuli were introduced.

#### **Purpose of the Research**

The primary objective of the study was to determine the functional connectivity change using three kinds of visual stimuli on different individuals.

# Biomedical Engineering Term Paper

**ML Morrison**



## **Biomedical Engineering Term Paper:**

*Handbook of Research on Biomedical Engineering Education and Advanced Bioengineering Learning: Interdisciplinary Concepts* Abu-Faraj, Ziad O.,2012-02-29 Description based on v 2 copyrighted in 2012      **Biomedical Engineering** Reza Fazel-Rezai,2011-08-29 In all different areas in biomedical engineering the ultimate objectives in research and education are to improve the quality life reduce the impact of disease on the everyday life of individuals and provide an appropriate infrastructure to promote and enhance the interaction of biomedical engineering researchers This book is prepared in two volumes to introduce a recent advances in different areas of biomedical engineering such as biomaterials cellular engineering biomedical devices nanotechnology and biomechanics It is hoped that both of the volumes will bring more awareness about the biomedical engineering field and help in completing or establishing new research areas in biomedical engineering      Essentials of Writing Biomedical Research Papers. Second Edition Mimi Zeiger,1999-10-21 Provides immediate help for anyone preparing a biomedical paper by givin specific advice on organizing the components of the paper effective writing techniques writing an effective results sections documentation issues sentence structure and much more The new edition includes new examples from the current literature including many involving molecular biology expanded exercises at the end of the book revised explanations on linking key terms transition clauses uses of subheads and emphases If you plan to do any medical writing read this book first and get an immediate advantage      **Research Developments in Computer Vision and Image Processing: Methodologies and Applications** Srivastava, Rajeev,2013-09-30 Similar to the way in which computer vision and computer graphics act as the dual fields that connect image processing in modern computer science the field of image processing can be considered a crucial middle road between the vision and graphics fields Research Developments in Computer Vision and Image Processing Methodologies and Applications brings together various research methodologies and trends in emerging areas of application of computer vision and image processing This book is useful for students researchers scientists and engineers interested in the research developments of this rapidly growing field      Biomedical Engineering ,1975 The international monthly journal which deals with the modern applications of physics and engineering to biology and medicines      *Biomedical Engineering e-Mega Reference* Buddy D. Ratner,Jack E. Lemons,John Semmlow,W. Bosseau Murray,Reinaldo Perez,Isaac Bankman,Stanley Dunn,Yoshito Ikada,Prabhas V. Moghe,Alkis Constantinides,Joseph Dyro,Richard Kyle,Bernhard Preim,Sverre Grimnes,Frederick J. Schoen,Daniel A. Vallero,Orjan G. Martinsen,Allan S. Hoffman,2009-03-23 A one stop Desk Reference for Biomedical Engineers involved in the ever expanding and very fast moving area this is a book that will not gather dust on the shelf It brings together the essential professional reference content from leading international contributors in the biomedical engineering field Material covers a broad range of topics including Biomechanics and Biomaterials Tissue Engineering and Biosignal Processing A fully searchable Mega Reference Ebook providing all the essential material needed by Biomedical and Clinical Engineers on a day

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