

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.

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Table of Contents Biomedical Engineering Term Paper

1. Understanding the eBook Biomedical Engineering Term Paper
 - The Rise of Digital Reading Biomedical Engineering Term Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Biomedical Engineering Term Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a Biomedical Engineering Term Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biomedical Engineering Term Paper
 - Personalized Recommendations
 - Biomedical Engineering Term Paper User Reviews and Ratings

- Biomedical Engineering Term Paper and Bestseller Lists
- 5. Accessing Biomedical Engineering Term Paper Free and Paid eBooks
 - Biomedical Engineering Term Paper Public Domain eBooks
 - Biomedical Engineering Term Paper eBook Subscription Services
 - Biomedical Engineering Term Paper Budget-Friendly Options
- 6. Navigating Biomedical Engineering Term Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Biomedical Engineering Term Paper Compatibility with Devices
 - Biomedical Engineering Term Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biomedical Engineering Term Paper
 - Highlighting and Note-Taking Biomedical Engineering Term Paper
 - Interactive Elements Biomedical Engineering Term Paper
- 8. Staying Engaged with Biomedical Engineering Term Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biomedical Engineering Term Paper
- 9. Balancing eBooks and Physical Books Biomedical Engineering Term Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biomedical Engineering Term Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Biomedical Engineering Term Paper
 - Setting Reading Goals Biomedical Engineering Term Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biomedical Engineering Term Paper
 - Fact-Checking eBook Content of Biomedical Engineering Term Paper
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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