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# Analysis of Electroencephalographic Signals to Study the Behavior of Brain Frequencies for the Study of Academic Stress

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H.M. Moyeenudin ; S. Hannah ; T. Anuradha ; R. Muthalagu ; V. Seedha Devi ; A. Jose Anand All Authors



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#### Abstract:

The current study perform an analysis of electroencephalographic signals to study the behavior of brain frequencies in subjects who are under academic stress generated by a cognitive task, while listening to music or being silent. Creation of a corpus of more than 10 subjects under different sound stimuli is created. Characterization of brain signals are characterized for the identification of academic stress. Protocol is designed and brain signals are collected to observe the relationship between music listening and academic stress. EEG signal classifiers are used to identify differences between different sessions. Analysis of brain frequencies are analysed obtained in the sessions for each participant.

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Currently, stress affects a large part of the world's population in different ways in their daily lives. Therefore, in recent years it has become a topic of growing interest for research. Stress, manifested occasionally and in small proportions, can be positive, since it allows us to face situations that the individual perceives as stressful. It also allows one to adapt to these situations, having beneficial effects on the individual's health, both **Seasonally** and **Cardiac Reading**. But chronic or continuous stress can cause serious health problems. Stress can be measured and evaluated in perceptual and behavioral terms using psychological tests, and in physical terms, using different types of biosignals, including neurological biosignals, such as those measured through electroencephalography [4–6].

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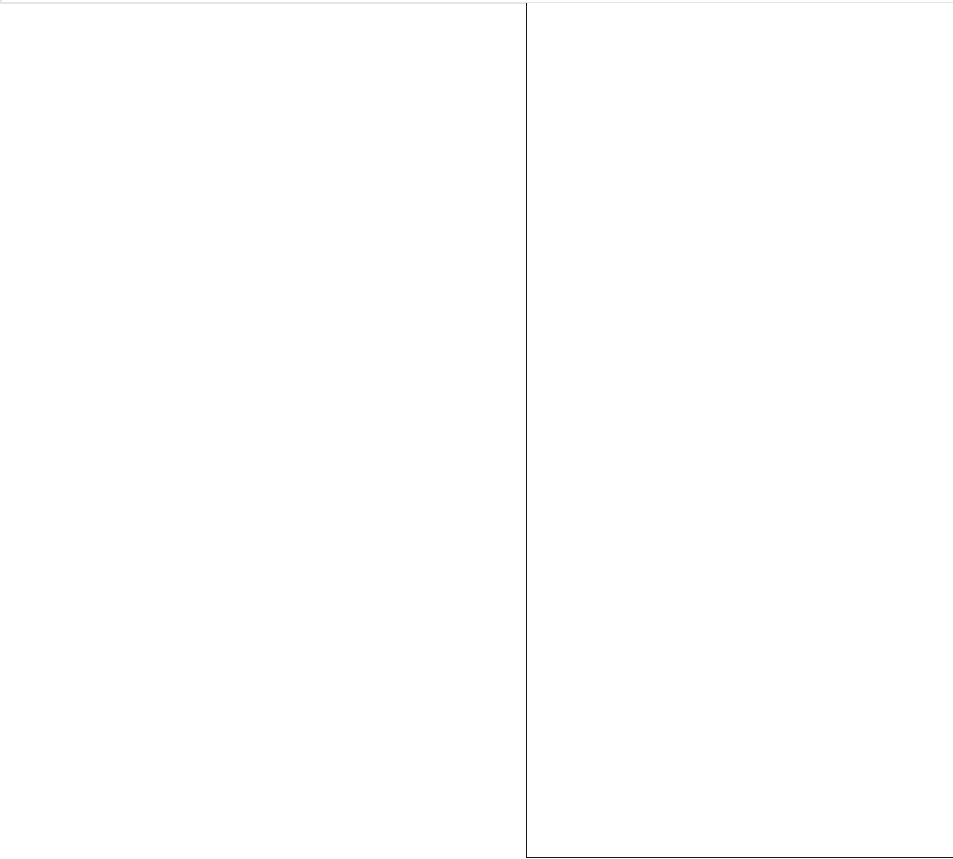
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