ABSTRACT

In Indonesia, there are various cultures that exist in various regions. The

preservation of culture in each region is very dependent on the interest of the

community, especially the interest of the younger generation towards the culture that

exists and lives in the area, including the culture in Cirebon. The growing interest of

the younger generation is also highly dependent on conservation efforts or socialization

from the government and educational institutions. One of the weaknesses of the cultural

socialization program is the use of an interest evaluation system in culture which has

been using a subjective questionnaire method, so that there is a lot of bias.

Based on this background, a final project with the title Implementation of

Spatial Selection on EEG Signals for the Cirebon Cultural Introduction Case Study was

made. This final project aims to evaluate the interest of the younger generation towards

Cirebon culture by utilizing EEG devices that can measure or evaluate objectively, so

that the evaluation results are more accurate.

The purpose of this study was to evaluate related to the introduction of culture

in Cirebon. This study uses sampling of the alpha frequency which is in the 8-13 Hz

wave and also the beta frequency which is in the 13-30 Hz wave.

This research was conducted using a device called emotive epoc which was

used on 14 students from SMK Telkom Bandung. This tool has 16 channels located in

the respondent's head which is then used to record brain wave signals in 14 respondents

which is then read using an application called Matlab. The results of the measurements

were analyzed to obtain a conclusion in the form of brain activity in the temporal area

associated with memory.

Keywords: Spatial Selection, EEG, Brain Waves

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