ABSTRACT

Paralysis is the loss of the ability of one or more muscles temporarily or even permanently. In patients who experience paralysis, they need full help for 24 hours. To solve this problem, this thesis research designs and analyzes an emergency dialing system based on orders for paraplegics using the EEG Neurosky Mindwave module. This system takes the attention and blinkstrength signal data generated by the EEG Neurosky Mindwave then analyzed to determine whether the paralyzed patient has succeeded or failed in calling the command condition then compared to the command condition based on the blink graph. At the summon the command is used as a nurse call and a call to the bathroom. Therefore, the condition of the command call if categorized as successful blink graphs in accordance with command conditions and categorized as failing if the blink graph does not match the command conditions.

Keywords: Paralysis, EEG Neurosky Mindwave, BlinkStrength, Attention