

Detection of Electroencephalographic signals and its applications for remote sensing

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This experiment performed for driving motor control by using brainwave detection. Skin film electrode was made to measure thinking currents, which will be connected to the hand, forehead, and temple. Nerve currents in human brain signals were amplified by voltammetry with copper connection. Using controlling programs, brainwave detection under the various para strength obtained by as current sensitivity, anodic or cathodic potential windows and increment frequency conditions can be examined. Each result was measured using only thinking current by electrochemical voltammetric systems with our circuits; connection to the varying sensitivity was intended to find the best peak sensitivity. Based on this data, drive control via brainwave is possible. Voltage changes on the surface of the head are converted to signal amplification that can control the movement of machines and other things.