Controlling Player Avatars and Influencing Game Worlds Using Multi-Modal Input Systems

Final Year Project: Terminology

## P300

* The P300 wave is a type of wave present in EEG during decision making. This appears when a person receives a stimulus of some kind. This is the wave seen during ERP’s.

## ERP’s

* An ERP is the measurement of brain response to a given stimulation. By stimulating a person, we can measure the activation of groups of neurons in response to the stimulant, this resultant rise in voltage potential is an ERP.

## Monopolar EEG

* Each electrode is spaced out to avoid interacting with one another, has the downside of having very noisy data.

## Bipolar EEG

* Each electrode is paired with another in which it is closely situated too. The first electrode subtracts the data read from the second one from its own, this is to reduce any noise, generated either through muscles or other artifacts.