運用 P300 訊號於大腦印象裡說謊與誠實回應比較分析之研究
The Study of Using P300 in Brain Image Detecting： The Analyses of Deception versus Truthtelling Responses

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摘要

本研究運用腦波來分析大腦對於說謊與誠實的回應，透過觀察 P300 振幅大小之差異，來比較受測者說謊與誠實回應的不同。我們以撲克牌來對受測者實驗。透過交叉分析分別來比較受測者有印象&說謊、有印象&誠實、沒有印象&說謊與沒有印象&誠實四種組合下的 P300 振幅有無顯著差異。分析結果，透過統計分析 P300 振幅的最大正波峰－最大負波峰(p-p)

amplitude of "impression" and "response" in the simple main effects of two-way ANOVA. In base – peak (b-p) values, only the interaction of effects is significant. By posteriori, four groups are significant in peak – peak (p-p) values: impressed & truth > unimpressed & truth and unimpressed & deception; impressed & deception > unimpressed & deception. In base – peak (b-p) values impressed & truth is the largest, and there is no significant difference between other three groups.

Keywords*：*EEG*、*deception*、*truth*、*P300