

Establishment of New Electro-encephalogram Measurement Technology by Integrating Virtual Instrument

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Abstract

In this research, a new electro-encephalogram measurement technique is designed and constructed. The structure of virtual instrument built by software part, Lab-view hardware part, DAQ card and some external circuits are applied in the development process. This research integrates different fields that include physiological signals, circuits, virtual instrument, and physiology. Practical measurements have been carried out to demonstrate the capabilities of this new measurement technique.

Key words: Electro-encephalogram; Labview; Measurement; Virtual instrument