



# BIOMEDICAL ENGINEERING SEMINAR SERIES (XIV)

Date: 19<sup>th</sup> November, 2009

Time: 11:00am – 1:00pm

Location: Auditorium II, Library, University of Macau

Language: English / Chinese

## *EEG based Brain-computer Interface*

By

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### Abstract

Brain-computer interfaces (BCI) support direct communication and control between brain and external devices without any use of peripheral nerves and muscles. It provides a new technology for those people with severe motor disabilities to convey their intents or to control surrounding devices.

As a non-invasive technology, the electroencephalogram (EEG) based BCI has drawn many attentions in BCI studies. Three types of EEG based BCI will be introduced, they are based on steady-state visual evoked potential (SSVEP), motor imagery, and auditory stimulus respectively. The demonstrations showing the potential applications of the systems will also be presented.

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