

PSDAS CPD Activity

THE EMERGENCE OF ELECTROCORTICOGRAPHIC (ECOG) BRAIN COMPUTER INTERFACES (BCIS) – FROM BASIC SCIENCE TO CLINICAL APPLICATION

11 August 2008

5 pm - 6 pm

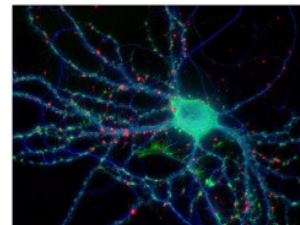
Room Y301, 3/F, Block Y, Lee Shau Kee Building, The Hong Kong Polytechnic University

Introduction

Electrocorticographic (ECoG) signal taken from the surface of the brain is becoming a powerful platform for neuroprosthetic application. In the past five years, it has emerged as a practical clinical alternative to more classic methodologies of single neuron and electroencephalographic (EEG) based systems. ECoG is a very promising intermediate Brain Computer Interface (BCI) modality because it has higher spatial resolution, better signal-to-noise ratio, wider frequency range, and lesser training requirements than scalp-recorded EEG and at the same time, has lower technical difficulty, lower clinical risk, and probably superior long-term stability than intracortical single-neuron recording. The notable advantages of ECoG as a neuroprosthetic platform also provide superior spatial and temporal resolution in understanding human cortical physiology. This talk will review the evolution of ECoG based BCI research and the implications towards clinical application.

Speaker

Eric C LEUTHARDT, MD
Assistant Professor of Neurological Surgery and Biomedical Engineering
Director, Center for Innovation in Neuroscience and Technology
USA



Medium of instruction

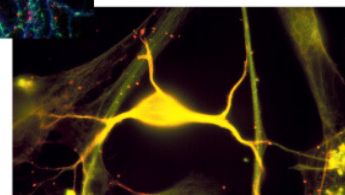
English

Quota

Limited to 40.
On first-come-first-serve basis
Successful applicants will be notified 1 week before commencement of the event.

Registration

Free of charge



CPD Information

CPD hours will be granted to HKIE members.

Enquiry

For further information, please contact Mr Bryan SO (Tel: 2788 5548 / Email: bryanso@hkpc.org) or Ms Christine HO (Tel: 2788 5550 / Email: kmho@hkpc.org).

Bad weather arrangement

The seminar will be cancelled at typhoon signal no. 8 or above / Black Rainstorm Warning is hoisted as announced by the Hong Kong Observatory at or after 6:00am on the date of seminar.

Funding Organization



COMMERCE AND ECONOMIC DEVELOPMENT BUREAU
THE GOVERNMENT OF THE HONG KONG
SPECIAL ADMINISTRATIVE REGION

"Any opinions, findings, conclusions or recommendations expressed in this material / any event organized under this Project do not reflect the views of the Government of the Hong Kong Special Administrative Region or the Vetting Committee for the Professional Services Development Assistance Scheme."

Attention: Mr Bryan SO

REGISTRATION FORM 

Fax No.: 2788 5002

I would like to join the CPD Seminar on electrocorticographic brain computer interface on 11 August 2008.

Name: _____ Organization: _____

Mobile Contact No.: _____ Fax No.: _____

Email: _____

HKIE Members? Y / N (Please delete if inappropriate) If Y, HKIE Membership No.: _____

Signature: _____ Date: _____