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IEEE



Collective Inspiration

EEG Signal processing –

Epilepsy and the brain

A/Prof Kenneth Pope

*Flinders University
School of Computer Science,
Engineering and Mathematics*



Hosted by the IET on behalf of the Electrical
Joint Technical Program 2010

Tuesday 21st September 2010
5:30 pm for 6:15 pm
Refreshments provided at 5:30 pm

Engineers Australia
Level 11,
108 King William Street,
Adelaide SA 5000
(Parking on Flinders St after 5pm)

Abstract

The focus of the EEG Research Unit at Flinders University and Flinders Medical Centre is epilepsy and normal brain rhythms. Driven by Emeritus Professor John Willoughby (neurology) and Associate Professor Kenneth Pope (engineering), the laboratory's primary focus has been exploring how epilepsy is expressed and whether it has a relationship to normal brain rhythms. This has led to interesting results in how we think, how muscle affects electrical scalp recordings and how meditation differs from sleep. This presentation will take you on a tour of ten years in biomedical signal processing in the brain.

Speaker

As an undergraduate, Kenneth Pope studied computer science, mathematical physics & electrical and electronic engineering. After completing his PhD, he worked for the Cooperative Research Centre for Sensor Signal and Information Processing on a variety of projects including blind signal separation, analysis of magnetic resonance spectra and pseudo-holography.

Since 1996, he has lectured at the Flinders University of South Australia in electronics, communication systems, professional skills and biomedical engineering. His research interests are biomedical signal analysis, nonlinear signal processing and Bayesian methods.

ALL VISITORS ARE WELCOME

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