



Department of Automatic Control & Systems Engineering
would like to announce the following seminar:

Fuzzy Neural Networks for Nonlinear System Modelling

Speaker: Professor W Yu

**Departamento de Control Automático
CINVESTAV-IPN, México**

**Friday 23 March 2007
at 14:10**

Location: Sir Henry Stephenson Building LT2

Coffee and Biscuits will be served afterwards.

ABSTRACT

Fuzzy systems can approximate any continuous nonlinear function to arbitrary accuracy, provided that suitable fuzzy rules are available. Fuzzy modelling includes two stages: structure identification (fuzzy rules) and parameter identification (membership functions). Online clustering, support vector machines, hierarchical and recurrent techniques will be applied to determine the structure of the fuzzy system. Input-to-state stability and ellipsoid methods will be used to update the membership functions. An application on modelling of crude oil blending is proposed.