

**IEEE Control Systems Society
UK&RI Chapter PhD Colloquium**

Date: Thursday 10 January 2008

Venue: Room B29, Sackville Street Building,
University of Manchester

Programme Overview

9:30-10:00 Registration

Session 1

10:00-10:20

On the Robust Stability of Anti-windup with structured uncertainty and the Preservation of Robustness

— Rafael Morales, The University of Manchester

10:20-10:40

Hamiltonian Systems: Theory and Applications

— Yajie Sun, The University of Manchester

10:40-11:00

Sampled-Data Control of Nonlinear Systems in Output Feedback Form

— Buzhou Wu, The University of Manchester

11:00-11:20

Recent Developments in Multivariable Control Performance Assessment

— Qiaolin Yuan, The University of Manchester

11:20-11:40

A Multi-agent Based Protection System (MAPS) for Relay Coordination in Distribution Networks

— Chen Ma, The University of Liverpool

11:40-12:00

A Novel Scheme for Protocol Design in Wireless Network with BER estimation

— Tingting Wen, The University of Manchester

12:00-13:00 Lunch Time

Session 2

13:00-13:20

Robust Observer Design for Fault Detection of Gas Turbine Engines

— Xuewu Dai, The University of Manchester

13:20-13:40

Unbiased Partial Least Squares Solution

— Awad Shamekh, The University of Manchester

13:40-14:00

High Gain Observer for Circle Criterion Based Fault Detection

— Wan Rahiman, The University of Manchester

14:00-14:20

Association Rule Mining-based Dissolved Gas Analysis for Fault Diagnosis of Power Transformers

— Z. Yang, The University of Liverpool

14:20-14:40

System Identification Using a Combined Simulated Annealing and Gradient Search Method

— Yiqun Zou, The University of Manchester

14:40-15:10 Tea Break

Session 3

15:10-15:30

Baseline Normalisation of ECG Signals Using Empirical Mode Decomposition and Mathematical Morphology

— Y.T. Ji, The University of Liverpool

15:30-15:50

Multivariate Statistical Analysis of Raman Images of a Common Pharmaceutical Tablet

— Haisheng Lin, The University of Manchester

15:50-16:10

Development of Mathematic Morphology and FPGA Based Protective Relays

— Dayu Shi, The University of Liverpool

16:10-16:30

MIMO Toolbox for Matlab

— Oskar Vivero, The University of Manchester