



UKACC PhD Presentation Showcase

IET, Savoy Place, London
17th October 2012, 2.30pm.

- | | Time | Transport |
|----|------|--|
| 1 | 2.35 | Intelligent Power Management for Unmanned Vehicles
James Graham
Loughborough University |
| 2 | 2.40 | Active Steering Control to Enhance Narrow Tilting Vehicle Stability
James Robertson
University of Bath |
| 3 | 2.45 | Control algorithms for optimisation of engine combustion process with continuously changing fuel composition
KinYip Chan
Kingston University |
| 4 | 2.50 | REPOINT
Samuel Bemment
Loughborough University |
| | | Actuation and motion control |
| 5 | 3.00 | Platform hopping robots
Jawaad Bhatti
University of Bath |
| 6 | 3.05 | LASSO--MPC: Model Predictive Control for Over--actuated Systems
Marco Gallieri
University of Cambridge |
| 7 | 3.10 | Control of a Fast Switching Valve for use in Digital Hydraulics
Nathan Sell
University of Bath |
| 8 | 3.15 | Control of Atomic Force Microscopes
Umar Khan
University of Southampton |
| | | Control and estimation theory |
| 9 | 3.25 | Robust Positively Invariant Sets for Uncertain Systems
Furqan Tahir
Imperial College London. |
| 10 | 3.30 | Distributed Economic Model Predictive Control
Jaehwa Lee
Imperial College London |
| 11 | 3.35 | Parity equations-based unknown input reconstruction for Hammerstein-Wiener systems in errors-in-variables framework
Malgorzata Sumislawska
Coventry University |
| 12 | 3.40 | Piecewise Gaussian Process for System Identification
Juan Yan
Queen's University Belfast |

- 3.50 **BREAK**
- Renewable Energy**
- 13 4.05 Optimal Active Control and Optimization of a Wave Energy Converter
Edo Abraham
Imperial College London
- 14 4.10 Optimal control with application to wave energy harvesting
Zhe Feng
Imperial College London
- 15 4.15 Ocean Wave Forecasting for Wave Energy Converters
Ming Ge
Imperial College London
- 16 4.20 Control Strategies for a solar system assisted by heat pump
Muhammad Waseem Ahmad
Loughborough University
- Energy/efficiency and condition monitoring**
- 17 4.30 Active Control of Large Aeroelastic Wind Turbine Models for Load Alleviation
Bing Feng NG
Imperial College London
- 18 4.35 Detecting the location of damaged components in MDOF structural using the transmissibilities
of NOFRFs at super-harmonic
Xueyan Zhao
University of Sheffield
- 19 4.40 Condition Monitoring for a Cryogenic Vacuum System
Nick Wright
Loughborough University
- 20 4.45 Occupancy Driven Supervisory Control to Minimise Energy Use in Airport Terminal
Abdulhameed Mambo
Loughborough University
- Electrical Power systems**
- 21 4.55 Distributed control and Smart Grids
Antonio De Paola
Imperial College London
- 22 5.00 Improvement to Control and Reliability in Power systems (Frequency regulation)
Amr Kamal
Kingston University
- 23 5.05 Inverters with Capacitive Output Impedance (C-inverters)
Yu Zeng
The University of Sheffield
- 24 5.10 Fault Diagnosis for Power Transmission Line using Statistical Methods
Yuanjun Guo
Queen's University, Belfast
- 5.25 **PRIZE PRESENTATION**