

**Emerging Technologies in Computing and Engineering**  
**Computing and Engineering Annual Researchers' Conference (CEARC '09)**  
**Friday 11<sup>th</sup> December 2009**  
**Castle Hill Suite, University of Huddersfield**

- 08.30 – 09.15 Registration Tea/Coffee and Poster Viewing
- 09.15 – 09.20 Welcome and Opening Address
- 09.20 – 09.40 *'Modelling for a Turbocharger in Rotordynamics'*  
H Zhang, Automotive Research Group
- 09.40 – 10.00 *'Detection of Diesel Engine Valve Clearance by Acoustic Emission'*  
F Elamin, Diagnostics Research Group
- 10.00 – 10.20 *'Ultimate Axial Load Capacity of V-Band Clamp Joints'*  
M Muller, Engineering, Control and Machine Performance Research Group
- 10.20 – 10.40 *'Effect of Cross Wind on Aerodynamic Coefficients of Ground Vehicles'*  
V Malviya, Automotive Research Group
- 10.40 – 11.15 **Tea/Coffee and POSTER VIEWING**
- 11.15 – 11.35 *'Efficient Offline Thermal Error Modelling Strategy for Accurate Thermal Behaviour Assessment of the Machine'*  
N Mian, Engineering, Control and Machine Performance Research Group
- 11.35 – 11.55 *'Interferograms Analysis for Wavelength Scanning Interferometer using Convolution And Fourier-Transform'*  
H Muhamedsalih, Centre for Precision Technologies Research Group
- 11.55 – 12.15 *'Predicting Specific Gravity and Viscosity of Biodiesel Fuels'*  
B Tesfa, Automotive Research Group
- 12.15 – 12.35 *'Automating the Composition of Popular Music: The Search for a Hit'*  
T Millea, Music Technology Research Group
- 12.35 – 14.00 **Lunch and POSTER VIEWING**
- 14.00 – 14.20 *'An Auralisation Method for Real Time Subjective Testing of Modal Parameters'*  
M Wankling, Music Technology Research Group
- 14.20 – 14.40 *'Characterisation of the Directionality of Reflections in Small Room Acoustics'*  
J Romero Perez, Music Technology Research Group
- 14.40 – 15.00 *'A Study of Synthesizing Artificial Intelligence (AI) Planning Domain Models by using Object Constraints'*  
S Shah, Knowledge Engineering and Intelligent Interfaces Research Group
- 15.00 – 15.20 *'Fast Human Detection for Video Event Recognition'*  
J Wang, Computer Graphics, Imaging and Vision (CGIV) Research Group
- 15.20 – 15.40 **Tea/Coffee and POSTER VIEWING**
- 15.50 – 16.10 *'Level Of Detail Control in Hybrid Rendering Application'*  
Q Xu, Computer Graphics, Imaging and Vision (CGIV) Research Group
- 16.10 – 16.30 *'A Multi-View Interest Point Based Approach to Photometric Realism within Augmented Reality Systems'*  
M Bingham, Computer Graphics, Imaging and Vision (CGIV) Research Group
- 16.30 – 16.50 *'Designing Interfaces to Visualise Domestic Communication Patterns'*  
A Li, Knowledge Engineering and Intelligent Interfaces Research Group
- 16.50 - End **Prize Giving and Close**