


# **The 2012 UKACC International Conference on Control (UKACC Control 2012)**

Cardiff, UK, 3-5 September 2012

## **GREETINGS FROM THE CONFERENCE CHAIRS**



On behalf of the general conference committee, we cordially welcome you to attend the 2012 UKACC (United Kingdom Automatic Control Council) International Conference on Control (UKACC Control 2012). We hope you will enjoy your time in Cardiff in the UK and find them stimulating and fruitful.

UKACC Control 2012 is the ninth in this now well established series of prestigious biennial events. It will take place in Cardiff, UK during 3-5 September 2012 and is organised by the Advanced Control and Network Technology Research Unit in the University of Glamorgan. UKACC Control 2012 aims to provide a broad international forum for scientists, engineers, and educators working in the areas of control systems to discuss state-of-the-art science and technologies in the general area of control systems with particular emphasis being placed on applications.

The technologies in automatic control have been playing important roles in our modern civilization and expected to stay as main characters in the future. The conference intends to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in automatic control. The conference will promote the development of automatic control, strengthen the international academic cooperation and communications, and provide an opportunity of exchanging research ideas.

With the tremendous work of the members of the International Program Committee, the final program has a unique set of technical sessions covering latest research and development results in automatic control. It contains a number of high level theoretical papers as well as many interesting application papers. A total of 254 papers were submitted to UKACC Control 2012 from different countries and regions. After being reviewed, 192 papers have been accepted in the final program. There are 3 plenary talks, 36 lecture sessions and 3 poster sessions. The papers were assigned with the purpose of forming coherent sessions.

We have invited an excellent set of plenary speakers. On the first day, after the official opening, there will be a plenary talk on “Control for Performance Optimization” presented by Professor Sebastian Engell in Technische Universität Dortmund, Germany. On the second day, we will have a plenary talk on “Control Systems Engineering: a Business-Driven Approach” jointly given by Professor Peter Fleming in the University of Sheffield, UK and Mr Stephen Hill in Rolls Royce, UK. The third day will start with the plenary talk on “Aircraft Tonal Active Noise Control Techniques and Their Re-use delivered by Mr Ian Stothers in Ultra Electronics Controls, UK.

In addition to the high quality of the academic contributions in the program, UKACC Control 2012 has received various supports from UK industry with sponsorship from commercial organizations and an involvement from the four professional organizations, namely, the Institution of Engineering and Technology (IET), the Institution of Mechanical Engineers (IMechE), the Institute of Measurement and Control (InstMC), and the Institute of Electrical and Electronics Engineers (IEEE). The strong industrial involvement is evident in the program for the three Mini-Symposia.

We would like to take this opportunity to thank the members of the organising committee and the international program committee for their fantastic work. Our sincere thanks also go to many volunteers and reviewers for their diligence and dedication in the preparation of this conference.

Guoping Liu (General Chair)



Duc Pham (IPC Chair)



David Rees (Organising Chair)

