



Newcastle



# SYSID 2006

14th IFAC Symposium on System Identification - March 29-31, 2006 Newcastle, Australia



## Key Dates

- August 29, 2005**  
Submission of draft papers and invited session proposals
- October 28, 2005**  
Notification of acceptance
- December 2nd, 2005**  
Submission of final papers
- March 29-31, 2006**  
SYSID 2006 Symposium

### Invitation

The organising committee has the pleasure of inviting you to participate in the 14th IFAC Symposium on System Identification, SYSID 2006, to be held in Newcastle, Australia March 29-31, 2006. The first Symposium was held in Prague in 1967, and this is the first to be held in the Southern Hemisphere.

### Location

Newcastle is located 160km north of Sydney and has excellent accessibility by road, rail & air. It offers a wide range of centrally located accommodation, from five star to budget. The city boasts magnificent beaches together with harbourfront dining all within easy walking distance of the conference venue. Other attractions include art galleries, museums, heritage architecture, a large selection of restaurants and extensive shopping. Easy day trips can be made to the world famous Hunter Valley Vineyards, the magnificent water ways of Port Stephens and Lake Macquarie, and the rain forests and scenic splendour of the Barrington Tops National Park.

### Venue

The conference venue will be the Newcastle City Hall Convention Centre, (pictured left) which is located right in the heart of Newcastle and within 15 minutes walk of all the main conference hotels. This grand 1920's building has become a focal point for the city of Newcastle.

### Travel Information - How to get to Newcastle

The closest international airport is Sydney. From there Newcastle can be reached by:

**Road:** The main access from Sydney by road is the F3 Freeway - an easy 2 hour drive.

**Rail:** There is an hourly service from Sydney Central Station to Newcastle. The trip takes 2.5 hours.

**Air:** Newcastle is served by two airports:

Newcastle Airport (Williamstown) is the major regional airport located approx. 25 mins to the north of the CBD.

### Climate

Newcastle is a sub-tropical climate zone with generally temperate weather conditions throughout the year. In March the typical daily temperatures are a maximum of 26 and a minimum of 18 degrees celsius.

### Program

The Scientific program will consist of:

- \* **plenary and semi-plenary lectures by invited speakers**
- \* **regular (contributed) paper presentations in oral and poster sessions**
- \* **invited sessions**
- \* **software sessions, presenting and demonstrating industrial, educational and research software**

In particular, case studies and technological contributions integrating theory and practice are encouraged.

All contributed papers will be subject to a review process. Accepted papers will be assigned to an oral or poster session according to the author's preference and the IPC decision. For each accepted paper, at least one author is requested to register for the symposium upon delivery of the final paper. All accepted papers will be published in the Symposium proceedings, which will be available at the Symposium.



**Further information:  
Please consult the  
SYSID 2006 website at**

[www.sysid2006.org](http://www.sysid2006.org)

# IFAC SYSID 2006

## Scope

The IFAC Symposium on System Identification (SYSID) is organised every three years and aims to promote research and development activities in the areas of system identification, experimental modeling, parameter estimation, signal analysis and adaptive control.

The scope of the symposium covers all aspects of these areas, ranging from theoretical, methodological and scientific developments to a large variety of (engineering) application areas. It is the intention of the organisers to position SYSID 2006 as a meeting place where researchers and practitioners from several research communities can meet to discuss issues related to these areas.

To enhance the applications and industrial perspective of the symposium, participation from industrial authors is particularly encouraged.

Relevant topics for the symposium program include:

- Identification of linear and multivariable systems
- Identification of nonlinear systems, including neural networks
- Identification of hybrid and distributed (pde) systems
- Identification for control
- Experimental modeling in process control
- Vibration and modal analysis
- Model validation, monitoring and fault detection
- Signal processing and communication
- Parameter estimation and inverse modeling
- Statistical analysis and uncertainty bounding
- Adaptive control and data-based controller tuning
- Learning, data mining and Bayesian approaches
- Sequential Monte Carlo methods, including particle filtering
- Applications in process control systems, motion control systems, robotics, aerospace systems, bioengineering and medical systems, physical measurement systems, automotive systems, econometrics, transportation and communication systems
- Applications in emerging areas such as systems biology, quantum systems and MIMO communications



## Paper submission

Prospective authors are invited to submit contributions for regular and software sessions through the symposium website [www.sysid2006.org](http://www.sysid2006.org) from July 16, 2005.

All submitted contributions must be full papers written in English and must comply with the IFAC format, detailed in the instructions on the symposium website.

Submissions can be made in either postscript (ps) or pdf-format, and are limited to 6 pages. The submission deadline for all contributions

is August 29, 2005. Prospective organisers of invited sessions are required to submit a set of six invited papers with a well-defined cohesive focus on a topic relevant to the symposium. Invited sessions may start with a tutorial presentation. Contributions in invited session proposals can be extended abstracts of at least 2000 words showing the principal contribution of the paper so as to allow informed peer review.

All submitted papers are subject to the IFAC copyright policy detailed at [www.ifac-control.org](http://www.ifac-control.org)

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**Contact Information:** For further information please consult the **SYSID 2006** website: [www.sysid2006.org](http://www.sysid2006.org)

