

## International Program Committee

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## Joint CTS-HYCON Workshop on Nonlinear and Hybrid Systems

### Organizers:

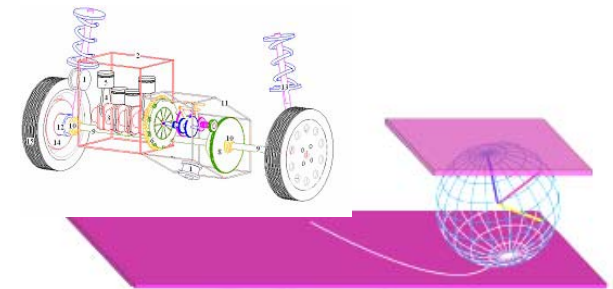
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**Paris**  
**10-12 July 2006**

## Invited Speakers

### Objectives

The main objective of the Joint CTS-HYCON Workshop is to bring together those enrolled in the activities of the CTS Marie Curie Training Site and of the HYCON Network of Excellence, in order to promote the exchange of ideas and experiences and reinforce scientific contacts in the large multidisciplinary area of the control of nonlinear and hybrid systems.

All CTS fellows (present and past) and all the HYCON PhD students are invited to participate by sending a three pages extended abstract by 15 February 2006. Instructions and templates will be available on due time on the web site of the Workshop. A selection of papers will be published and will be presented at the Workshop together with a series of lectures given by invited speakers.

The Workshop is also open to other researchers and PhD students. However, acceptance will depend on availability.

Junior speakers (CTS and HYCON PhD students) will contend for three of the *Best Junior Presentation Awards*. The awards will be given both for scientific content. and for presentation technique.

**Frank Allgower**  
*Nonlinear control with receding horizon techniques*

**Georges Bastin**  
*Modelling and boundary control of networks of conservation laws*

**Antonio Bicchi**  
*Quantized and symbolic control of dynamic systems*

**Eduardo Camacho**  
*Model predictive control for hybrid systems*

**Bronislaw Jakubczyk**  
*Nonlinear systems with discrete control*

**Karl Henrik Johansson**  
*Hybrid modelling and control in communication systems*

**Antonio Loria & Elena Panteley**  
*Integral tools for asymptotic stability for systems of differential inclusions*

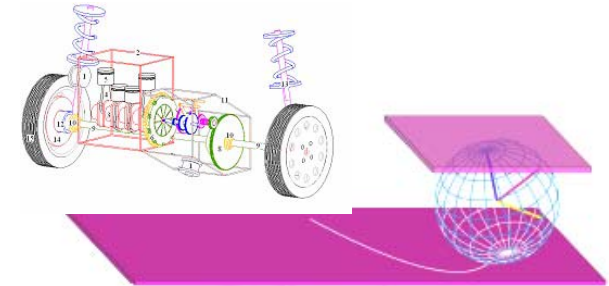
**John Lygeros**  
*Stochastic hybrid models in air traffic and biochemical processes*

**Gauthier Sallet**  
*Stability, observability and identification of epidemiological intra-host models. Application to malaria*

**Arjan van der Schaft**  
*Network modeling and control of physical systems*

**Rodolphe Sepulchre**  
*Stabilization of collective motion*

**Claire Tomlin**  
*Controller synthesis for hybrid systems, with applications to air traffic and flight management*



Details for submission, registration and social events will be disseminated as the date of the workshop approaches.

Please refer to the Workshop web site from 15 October 2005 at

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for complete instructions, news and updates



