

Dear Colleague,

The International Conference on “*Integrated Modeling and Analysis in Applied Control and Automation*”, [IMAACA2004](#), will be held on **October 2004 in Genoa, Italy**, as part of [I3M2004](#), “*The 1st International Mediterranean Modeling Multiconference*”. These scientific events are sponsored by [I.M.C.S.](#), the International Mediterranean Council of Simulation, and [SCS International](#), the Society for Modeling and Simulation, San Diego, USA.

In this framework, we are pleased to organize a **session** dealing with:

“NETWORK CONTROL and NETWORK CONTROLLED SYSTEMS”

This session focuses on the relationships between controls and networks in the perspective of adopting control based methodologies either to improve network performance, or to enhance control performance over the networks. Addressed topics include:

- (i) the pertinent input data, the instrumentation of a network and the data acquisition system
- (ii) the modeling of networks in a way suitable to apply control disciplines,
- (iii) the design of controllers aiming at achieving performance targets such as congestion avoidance, transfer/jitter delay control, buffer overflow avoidance, optimal routing, maximization of resource exploitation, control robustness against faults, etc,
- (iv) the simulation and monitoring of controlled networks.

Considered networks are first of all any kind of communication networks usable for some control application, local area networks with dynamically generated traffic, metropolitan networks, wide area networks, networks for the control of utilities, of railway traffic, and so on.

Briefly, the main purposes of this session are related to:

Network instrumentation

Modelling of networks

Control of networks

Integration of network models in control modelling

Impact of control distribution on control characteristics and properties

We hope that such a session will interest you.

Please send **an abstract** in PDF format **before January 16, 2004** to thomesse@loria.fr or dellipriscoli@dis.uniroma1.it (Extended to February 06, 2004.)

The full paper is to be sent before March 05, 2004 as drafts 12-17 pages, double-spaced, PDF or PS format. **Attach** a file specifying "IMAACA 2004", and stating author's names, affiliations, mail addresses, telephone and FAX numbers, and E-mail addresses.

Only original papers written in English will be considered on the basis of a full paper revision. After a first review by the two Chairs for general suitability to the conference, each full paper will be reviewed by members of the IPC.

The accepted papers will be published in the Conference Proceedings edited by SCS, the Society for Modeling and Simulation International (www.scs.org). The best papers will be considered for publication in special issues on technical journals.

DEADLINES are:

- February 06, 2004: Special Session Proposal
- February 06, 2004: Tutorial Proposal
- March 05, 2004 : Full Paper Submission
- April 23, 2004: Notification Acceptance
- July 01, 2004: Final Submission

Hoping to meet you in Genoa an important and most interesting city in the wonderful framework on the Italian Riviera, please receive my best regards.

Sincerely yours.

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