

AIMS & SCOPE

The interdisciplinary field of Discrete Event Systems combines different formalisms, methodologies and tools from control, computer science and operations research. The research activity in this field is driven by the needs of many different applications domains: manufacturing, process control, supervisory systems, software engineering, transportation, and so on. Discrete Event Systems is now a mature field and many interesting applications have been developed.

The Workshop on Discrete Event Systems will be organised for the 7th time in Reims, France, following earlier successful meetings in Prague (1992), Antibes (1994), Edinburgh (1996), Cagliari (1998), Ghent (2000) and Zaragoza (2002). It aims to provide researchers from different fields (control theoreticians and control engineers, software engineers and computer scientists, operations research specialists) with an opportunity to exchange information and new ideas, and to discuss new developments in the field of DES. Both theory and applications will be discussed. It is envisaged that areas of interaction between different methodologies and tools will be further explored and common applications will be considered with focus on analysis and design of supervisory controllers as well as design techniques and implementation for emerging new applications.

TOPICS

The workshop will cover all topics in discrete event theory and applications, including (but not limited to) the following:

- Formalisms and modelling methodologies: Petri nets, state automata, statecharts, process algebras, max/plus-algebra ...
- Analysis and design techniques including computer tools: perturbation analysis, logical and probabilistic verification ...

- Control of discrete-event systems with emphasis on supervisory control and on real time control
- Performance evaluation, diagnosis, optimisation, implementation and scheduling
- Discrete approaches of hybrid systems and reactive systems
- Applications including manufacturing systems, transportation systems, process control, distributed systems, software engineering, office automation, workflow, protocols ...
- Emerging applications in telecommunication systems and related fields: performance evaluation, on-line control ...

SPECIAL SESSIONS

Proposals for special sessions on particular aspects of discrete-event systems are invited. A special session should consist of 4 to 6 papers in the format described for individual contributions and a one-page abstract summarising the aim and content of the session. This abstract should contain: a title for the session, the name and full address of the session organizer, a list of keywords and the list of the papers included. Survey papers at the beginning of special sessions are encouraged. They can replace two regular contributions.

PAPER SUBMISSION

Authors are invited to submit draft papers to the workshop secretariat by 31 January 2004. Electronic submission (PS, PDF or Word file) sent by e-mail is encouraged. If electronic submission is really impossible, 4 hard copies should be sent to the secretariat.

To be included in preprints and proceedings, papers are limited to 6 pages and have to confirm to IFAC instructions which can be found on the web server of the conference.

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IMPORTANT DATES

JANUARY 31, 2004: Submission of papers, special sessions and tutorials

APRIL 20, 2004: Notification of acceptance of papers and preliminary programme

MAY 25, 2004: Final versions due

VENUE OF THE WORKSHOP

Reims is the city of French kings coronation and champagne. The conference will be organised in the Congress Center, within walking distance from the historical, cultural and tourist center of Reims.

Reims is situated 150 km to the east of Paris. It has a direct connection by shuttle car with both Paris airports: Roissy and Orly. The railway station and the A4 and A26 motorways are situated at about 200 meters of the Congress Center.

SOCIAL ACTIVITIES

The banquet will take place in a prestigious champagne cellar. It will be uniquely remembered by the participants and their accompanying persons.

In Champagne, the grape harvest takes place in September. A post-Conference tour to some of the most famous villages or "traditional crus" will be organised on Saturday, September 25 to appreciate all the stages related to champagne making.

WORKSHOP SECRETARIAT

IFAC WODES'04

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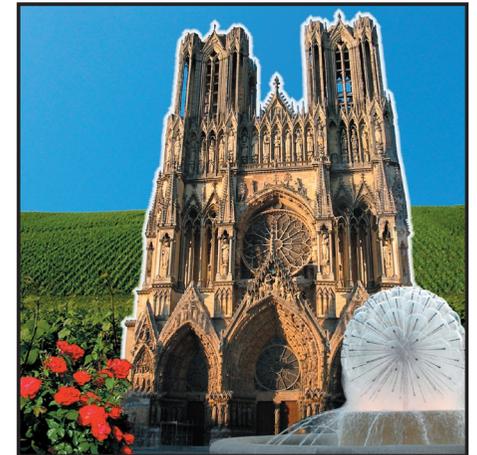


International Federation of Automatic Control

FIRST ANNOUNCEMENT &
CALL FOR PAPERS

Workshop on
Discrete Event Systems
(7th edition)

WODES'04



September 22-24, 2004
Reims – France

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