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IFAC Technical Committee on Discrete event and hybrid systems (TC 1.3)
Co-sponsoring IFAC Technical Committees:
TC 4.1 Components and Technologies for Control
TC 4.2 Mechatronic Systems
TC 5.1 Manufacturing Plant Control
TC 6.4 Safeprocess

VENUE - SOCIAL ACTIVITIES

The Workshop is organized by the Ecole Normale Supérieure de Cachan. It will be held in Paris. The banquet will take place in a prestigious Parisian place.

IMPORTANT DATES

January 08, 2007: Submission of full papers and special sessions.

March 12, 2007: Notification of acceptance.

April 13, 2007: Submission of final camera-ready papers and registration.

CONFERENCE SECRETARIAT

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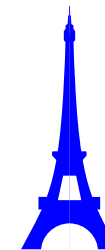


International Federation of Automatic Control

FIRST ANNOUNCEMENT AND CALL FOR PAPERS

1st IFAC Workshop on

Dependable Control of Discrete Systems



DCDS'07

June 13-15, 2007
Paris - Cachan, France



<http://www.lurpa.ens-cachan.fr/dcds07/>

Scientific partners:



AIMS & SCOPE

The aim of this first IFAC workshop is to provide the communities of safety/reliability analysis and of DES (Discrete Event Systems) with an opportunity to exchange information and new ideas, and to discuss new developments in the field of dependable control of discrete event critical systems. Research in this field is driven by the needs of many different applications domains, such as production systems, transport systems, embedded systems, ...

Several research results recently issued by the two communities are able to bring partial solutions to dependability requirements of these application domains. Fault-forecasting using dynamic or temporal fault-tree analysis, dependability modelling with the aid of bayesian networks, fault-tolerant systems design, formal verification of control software, timed and probabilistic model-checking, fault detection and diagnosis of DES, for instance, provide promising solutions for increasing control systems dependability. Nevertheless, none of these approaches in isolation can provide a global solution. Hence there is a need to bridge the gaps between the proposed models, methods and tools so as to improve design and operation of Dependable Control of Discrete Systems.

Gathering researchers of these two communities, this workshop will favour exchanges and will contribute to a better interdisciplinary approach for control dependability improvement. Works focusing on design for dependability ("off-line" methods) as well as on dependable operation ("on-line" methods) will be considered.

TOPICS

The workshop will cover all topics related to specification, design, implementation and operation of dependable controllers for critical discrete systems, including (but not limited to) the following:

- New *theoretical contributions* for dependable systems modelling and analysis using state

automata, Petri nets, Markov chains, bayesian networks, hybrid models, dynamic and temporal fault-trees, ...

- *Off-line methods* for fault-forecasting and dependability assessment (design and analysis of safety models, probabilistic model-checking, architecture evaluation, ...), for fault prevention and removal (formal synthesis, formal verification, ...), for design of fault-tolerant controllers, ...
- *On-line methods* for fault detection and identification, for monitoring and diagnosis, for reconfiguration, ...
- *Interdisciplinary approaches* for dependability improvement,
- *Applications* to manufacturing and production systems, transport, power plants, mechatronic systems, embedded systems, ...

SPECIAL SESSIONS

Proposals for special sessions related to specification, design, implementation and operation of dependable controllers for critical discrete systems are encouraged.

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.

IFAC COPYRIGHT POLICY

The material submitted for presentation at an IFAC meeting (Congress, Symposium, Conference, Workshop) must be original, not published or being considered elsewhere. All papers accepted for presentation will appear in the Preprints of the meeting and will be distributed to the participants. The presented papers will be further screened for possible publication in the IFAC Journals (Automatica, Control Engineering Practice, Annual

Reviews in Control, Journal of Process Control, Engineering Applications of Artificial Intelligence and Mechatronics), or in IFAC affiliated journals. All papers presented will be recorded on the IFAC Publication.

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PAPER SUBMISSION

On-line electronic full paper submission is required (PS or PDF file). Papers must be submitted not later than January 08, 2007 only by web server application: <http://www.lurpa.ens-cachan.fr/dcds07/>

To be included in preprints and proceedings, papers are limited to 6 pages and have to confirm to IFAC instructions, which can be found at the following address:

<http://www.elsevier.com/homepage/saf/ifac/site/IPV%20overview.htm>

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CONFERENCE FEES

Early registration fee	450 €
Student registration fee	250 €
Single day registration	250 €
Early registration deadline	May 11, 2007
Late registration fee	500 € (400 € for students)

Registration fees include lunches for the 3 days of the workshop, coffee breaks and banquet (except for single day registration). Extra banquet tickets could be purchased.