

COMMITTEES

International Program Committee

Chairs: M. P. Fanti (IT), T. L. Johnson (USA)

Vice-Chairs : A. Bobbio (IT), E. Schnieder (D)

Industrial Vice-Chair : D. Wei (USA)

Members :

P. Aknin (France) M. Muenchhof (Germany)

H. Boudali (The Netherlands) G. Mušič (Slovenia)

E. Brinksma (The Netherlands) E. Niel (France)

P. Chung (United Kingdom) Y. Papadopoulos (UK)

J. Cury (Brazil) C. E. Pereira (Brasil)

F. Di Giandomenico (Italy) J. F. Pétin (France)

M. Fabian (Sweden) S. Ramaswamy (USA)

L. Ferrarini (Italy) S. Reveliotis (USA)

A. Giua (Italy) J.M. Roussel (France)

J. Gorski (Poland) C. Seatzu (Italy)

M. Gribaudo (Italy) J. R. Silva (Brazil)

C. Hadjicostis (Cyprus) M. Silva (Spain)

L. Holloway (USA) T. Suzuki (Japan)

M. D. Jeng (Taiwan) M. Tomizuka (USA)

S. Kowalewski (Germany) B. Tuffin (France)

S. Lafortune (USA) L. Travé-Massuyès (France)

B. Lennartson (Sweden) B. Vogel-Heuser (Germany)

L. Litz (Germany) V. Volovoi (USA)

J. Lunze (Germany) V. Vyatkin (New Zealand)

J. Machado (Portugal) J. Zaytoon (France)

B. Maione (Italy) Q. Zhao (China)

J. McDermid (UK) M. C. Zhou (USA)

R. Minciardi (Italy)

Steering Committee

A. Bobbio (Italy) G. Frey (Germany)

J. B. Dugan (USA) J.-J. Lesage (France)

J. M. Faure (France) W. Reif (Germany)

National Organizing Committee (IT)

Chair: M. Dotoli

Industrial Vice-Chair: P. Larizza

G. Acciani G. Iacobellis C. Meloni B. Turchiano

E. Di Sciascio M. La Scala D. Naso

M. Falagario G. Maione R. Pellegrino

M. P. Fanti A. M. Mangini A. Rizzo

SPONSORS

Sponsored by IFAC Technical Committee:

- TC 1.3 Discrete Event and Hybrid Systems

Co-sponsored by 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 Laboratory of Control and Automation (<http://dee.poliba.it/lca>) of Politecnico di Bari (<http://www.poliba.it>) and will be held in Bari, Italy, at the prestigious Palace Hotel, located in the city centre and nearby the old town (http://www.dominahotels.com/eng/hotel_Conference_bari_palace/).

The banquet will take place at a prestigious place near the sea. A guided walking tour of the Bari old town will be included in the registration.

A tour of the typical town Alberobello and a tour of the well-known Castellana caves will be organized during the conference (not included in the registration fee and organized upon reaching of a minimum number of participants).

IMPORTANT DATES

January 24, 2009: Submission of full papers and special sessions.

March 12, 2009 : Notification of acceptance.

April 12, 2009 : Submission of final camera-ready papers and registration.

CONFERENCE SECRETARIAT

DCDS'09 DEE, Politecnico di Bari

200, via Re David, 70125 Bari, Italy

Phone: +39 080 5963643 Fax: +39 080 5963410

<http://dcds09.poliba.it>

For inquiries, email conference secretariat at:

dcds09@deemail.poliba.it



International Federation of Automatic Control

SECOND ANNOUNCEMENT AND CALL FOR PAPERS

2nd IFAC Workshop on
Dependable Control of Discrete Systems

DCDS'09



June 10-12, 2009

Bari – Italy

<http://dcds09.poliba.it>

also sponsored by:



Regione Puglia



under the patronage of:



Ministero
delle Infrastrutture e
dei Trasporti



Provincia di Bari



Città di Bari



AIMS & SCOPE

The aim of the 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 DES. Researches in this field are driven by the needs of many different application domains, such as production systems, transport systems, embedded systems, computers and communication systems, to name a few.

Several research results recently issued by the two communities are able to bring partial solutions to dependability requirements of these application domains. Fault-forecasting methods for systems dependability, dependability modeling thanks to 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 is able to provide a global solution. Hence, there is a need to bridge the gaps between the different models, methods and tools that are proposed so as to improve design and operation of dependable control of DES.

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 dependability improvement when designing and implementing the system ("off-line" approaches) as well as during system operation ("on-line" approaches) will be considered.

TOPICS

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

- Recent advances in fault-forecasting methods
- Formal methods for timed and probabilistic systems
- Modeling and analysis of stochastic systems
- Monitoring and diagnosis of discrete event systems
- Control of fault-tolerant discrete event systems
- Reconfiguration methods
- Interdisciplinary approaches for dependability improvement
- Applications to manufacturing and production systems, transport, power plants, healthcare systems, mechatronics and embedded systems
- Safety-critical systems
- System security

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.

PAPER SUBMISSION

On-line electronic full paper submission is required (PDF files only). Papers must be submitted not later than January 8, 2009 only by web server application :

<http://dcds09.poliba.it>

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

<http://www.dit.upm.es/ifac-papersonline/instructions/>

The copyright transfer form can be downloaded at:
http://dcds09.poliba.it/DCDS09/Papersubmission_files/IFAC%20Copyright%20Form.doc

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. Papers duly presented at the IFAC Congress, Symposia, Conferences and Workshops will be hosted on-line on the IFAC-PapersOnLine.net website (www.ifac-papersonline.net/). 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 as an IFAC Publication.

Copyright of material presented at an IFAC meeting is held by IFAC. Authors will be required to transfer copyrights electronically. The IFAC Journals and, after these, IFAC affiliated journals have priority access to all contributions presented. However, if the author is not contacted by an editor of these journals, within three months after the meeting, he/she is free to submit an expanded version of the presented material for journal publication elsewhere. In this case, the paper must carry a reference to the IFAC meeting where it was originally presented and, if the paper has appeared on the website www.ifac-papersonline.net/, also a reference to this publication.

CONFERENCE FEES

Early registration fee	500 €(VAT included)
Student registration fee	280 €(VAT included)
Single day registration	250 € (VAT included)
Early registration deadline	April 15, 2009
Late registration fee	550 €(430 €for students) (VAT included)

Registration fees include lunches for the 3 days of the workshop, coffee breaks, a guided walking tour of the Bari old town and banquet (except for single day registration). Extra banquet tickets will be purchasable during the workshop.