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# DCDS 2015

## 5<sup>th</sup> International Workshop on Dependable Control of Discrete Systems

**Cancun, Mexico**  
**May 27-29, 2015**



The 5<sup>th</sup> edition of DCDS is coming to Cancun, Mexico organised by CINVESTAV. The workshop will 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 Systems. Gathering researchers and practitioners of the two communities, it is expected to contribute to a better interdisciplinary approach for control dependability improvement.

### CALL FOR PAPERS

Authors are invited to submit papers and proposals for special sessions on all aspects of DES research to the workshop secretariat. Contributions must be not published or submitted to other conferences/journals before or parallel to this workshop. They should clearly state the problem being addressed, the goal of the work and the results achieved. **Papers** should be submitted electronically in PDF. Accepted papers will be limited to 6 pages in the proceedings, to be published electronically. Special sessions should consist of 4 to 6 papers along with a 1-2 page description of the aim and content of the session. **Such papers** will be reviewed individually. In case the special session is not accepted, individual papers will be considered for inclusion in the regular program.

### TOPICS

Related to specification, design, analysis, implementation, and operation of dependable controllers for critical discrete systems, including (but not limited to) the following:

- Recent advances in fault-tree and fault-forecasting methods,
- Formal methods for timed and probabilistic systems
- Modelling and analysis of stochastic systems
- Monitoring and diagnosis of discrete event systems
- Control of fault-tolerant discrete event systems
- Stability analysis and stabilising controllers
- Reconfiguration methods
- Interdisciplinary approaches for dependability improvement
- Applications including (but not limited to) the following: manufacturing and production systems, transport, logistics, automotive, power plants, mechatronics, embedded systems, and healthcare
- Software tools

### INFORMATION

[www.gdl.cinvestav.mx/dcds2015](http://www.gdl.cinvestav.mx/dcds2015)  
[dcds2015@gdl.cinvestav.mx](mailto:dcds2015@gdl.cinvestav.mx)

### IMPORTANT DATES

Proposals of special sessions: **Nov. 29<sup>th</sup>, 2014**  
Submission of papers: **December 13<sup>th</sup>, 2014**  
Notification of acceptance: **March 9<sup>th</sup>, 2015**  
Final version: **April 17<sup>th</sup>, 2015**

### SPONSORS



### Organising committee

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