



Call for Papers

DX-2004

15th International Workshop on Principles of Diagnosis

June 23-25, 2004

Carcassonne, France

<http://www.laas.fr/DX04>

The International Workshop on Principles of Diagnosis is an annual event that started in 1989, rooted in the Artificial Intelligence (AI) community. Its focus is on theories, principles and computational techniques for diagnosis, monitoring, testing, reconfiguration and repair of complex systems. Transfer of these theories, principles and techniques to industry-related disciplines and other application domains is amongst the important topics of the workshop.

DX-2004 particularly encourages the interaction and the exchange of theories, techniques, and experiences amongst scientists with diverse interests concerning diagnosis, and from different backgrounds: Artificial Intelligence, Control Theory, Systems Engineering, Software Engineering and other related areas.

DX is a lively forum that has traditionally adopted a single-track program and limited the number of participants in order to promote detailed technical exchange and debate. We welcome papers in a variety of areas related but not limited to:

- Formal theories and computational methods for: diagnosis, monitoring, testing, repair and therapy, reconfiguration, fault tolerance, diagnosability analysis and related topics.
- Modeling for diagnosis: symbolic, numeric, discrete, continuous, hybrid, probabilistic, functional, behavioral, qualitative, abstractions and approximations.

- Computational issues: controlling combinatorial explosion, use of structural and hierarchical knowledge, focusing strategies, resource-bounded reasoning.
- Diagnosis process: strategies for measurement selection, sensor placement, test actions design, active testing, embedded diagnosis systems, preventive diagnosis, fault tolerance strategies, distributed diagnosis.
- Bridge between DX and other areas: FDI control-based techniques, statistical and probabilistic methods, design, model checking, machine learning, non-monotonic reasoning, planning, execution, real-time languages, software verification and validation, debugging, hardware testing.
- Applications and technology transfer: real-world applications and integrated systems in a wide range of fields including transport systems, space and aeronautics, process industry, biomedical. Success (or failure) stories are especially welcome.

Location

DX-2004 will take place in Carcassonne, France at Hotel Le Donjon (see www.hotel-donjon.fr) inside the medieval walled *Cité*.

Submission Information

Accepted papers qualify as regular or poster papers. All accepted DX papers will be published in the Workshop notes and CD ROM. The workshop notes and CD ROM will be distributed to participants only so that resubmission of papers to conferences or journals is permitted. Final papers must be submitted in ECAI format (see <http://www.dsic.upv.es/ecai2004/>) and must not exceed 6 pages length.

Authors must submit their paper's title and abstract via the web page <http://www.laas.fr/DX04> by February 9, 2004. A pdf file of the full paper should then be uploaded via <http://www.laas.fr/DX04> by February 13, 2004. Postal addresses, electronic mail, fax, and telephone numbers should be listed on the cover page of all papers.

Authors will be notified of acceptance or rejection by April 2, 2004. Accepted papers have to be revised to accommodate the referees' comments. Camera-ready copies of the final paper are due by April 24, 2004.

To promote active discussion at the workshop, attendance will be by invitation only for those who wish to attend without submitting a paper. In this case, please e-mail a short abstract describing your research interests to DX04@laas.fr by February 9, 2004. Invitations will be mailed out by April 2, 2004.

Workshop Program Chair

Louise Travé-Massuyès

LAAS-CNRS, France

Program Committee

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Marina Zanella	University of Brescia, Italy

Important Dates

Extended Abstract submission deadline: February 9, 2004

Extended Paper submission deadline: February 13, 2004

Acceptance notification: April 2, 2004

Camera-ready copy due: April 24, 2004

Registration deadline: May 8, 2004

Workshop: June 23-25, 2004

Extended Invitation request for those not submitting: February 9, 2004

Acceptance notification for invitations: April 2, 2004

For more and updated information see:

<http://www.laas.fr/DX04>

Contact: DX04@laas.fr