

The 32nd IEEE International Symposium on On-Line Testing and Robust System Design

1-3 July 2026, Polignano a Mare, Italy

The IEEE International Symposium on On-Line Testing and Robust System Design (IOLTS) is an established forum for presenting novel ideas and experimental data on Online Testing techniques and, more generally, to Design for Robustness, Design for Reliability, and Design for Security.

The 2026 edition of IOLTS will be an in-person event from 1 to 3 July at **Hotel Covo dei Saraceni** in Polignano a Mare, Italy. You are kindly invited to participate and submit your contributions to IOLTS'26.

Topics (not limited to)

- Dependable system design
- Dependable Computer Architectures
- Design-for-Reliability
- Design for Reliability approaches for Low-Power
- Cross-layer reliability approaches
- Fault-Tolerant and Fail-Safe systems
- Functional safety
- Self-Test and Self-Repair
- Self-Healing design
- Self-Regulating design
- Self-Adapting design
- Reliability issues of Low-Power Design
- Robustness evaluation
- Quality, yield, reliability, and lifespan issues in nanometer technologies
- Variability, Aging, EMI, and Radiation Effects in nanometer technologies
- CAD for robust circuits design
- Online testing techniques for digital, analog, and mixed-signal circuits
- Self-checking circuits and coding theory
- Online monitoring of current, temperature, process variations, and aging
- Power density and overheating issues in nanometer technologies
- Field Diagnosis, Maintainability, and Reconfiguration
- Design for Security
- Fault-based attacks and countermeasures
- Design for Robustness for the automotive, railway, avionics, space, large industrial applications, IT infrastructure, cloud computing, and wired, cellular, and satellite communications

General Co-Chairs

R. Cantoro – *PoliTo, Italy*
A. Ruospo – *PoliTo, Italy*

Program Co-Chairs

A. Kritikakou – *Univ Rennes, IUF, France*
M. Traiola – *Inria, France*

Advisors to the Chairs and Special Session Chairs

S. Di Carlo – *PoliTo, Italy*
D. Gizopoulos – *Univ Athens, Greece*

Finance Chair

G. Mongelli – *LIRMM, France*

Publication Chair

G. Iaria – *PoliTo, Italy*

Publicity Co-Chairs

N. Bellarmino – *PoliTo, Italy*
M. H. Ahmadiilvani – *Taltech, Estonia*

Web Chair

N. Bires – *Inria, France*

Steering Committee

J. Abraham – *U. Texas at Austin*
D. Alexandrescu – *Synopsys*
A. Chatterjee – *GeorgiaTech*
S. Di Carlo – *PoliTo*
D. Gizopoulos – *U. Athens*
C. Metra – *U. Bologna*
M. Nicolaidis – *TIMA*
A. Paschalis – *U. Athens*
K. Roy – *Purdue U.*
M. Sonza Reorda – *PoliTo*
Y. Zorian – *Synopsys*

Submissions

Submitted papers must be complete manuscripts, up to 6 pages in two-column format (references do not count toward the limits).

Submissions are peer-reviewed by the Program Committee against six criteria—relevance to IOLTS, novelty, technical soundness, reproducibility, clarity of presentation, and expected impact—with conflicts of interest strictly managed.



Key Dates

Abstract:

15 Feb 2026

Paper:

22 Feb 2026

Notification:

12 Apr 2026



Riccardo Cantoro

riccardo.cantoro@polito.it

Annachiara Ruospo

annachiara.ruospo@polito.it

Angeliki Kritikakou

angeliki.kritikakou@irisa.fr

Marcello Traiola

marcello.traiola@inria.fr



IEEE



IEEE COMPUTER SOCIETY
TTTC

Test Technology Technical Community

iolts.tttc-events.org

discord.gg/mMewdNexTs