



Fourth European Workshop on Automotive Reliability, Test and Safety in Europe eARTS Workshop

The Hague, Netherlands
May 23-24, 2024

<https://cas.polito.it/eARTS2024/>

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Y. Zorian – Synopsys (US)
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Program committee (not limited to)
To be announced

Preliminary Call for Submissions

Automotive electronics is becoming more and more relevant in daily life, especially with the advent of autonomous driving. People will become 100% dependent on the proper operation of the electronic systems. The 4th European Automotive Reliability, Test and Safety Workshop (eARTS) intends to focus on test, reliability, and safety of automotive electronics, including IC design, test development, system-level integration, production testing, in-field test, diagnosis and repair solutions, cybersecurity, as well as architectures and methods for reliable, safe, and secure operation in the field.

The eARTS Workshop wants to offer a forum for industry specialists and academic researchers to present and discuss these challenges and emerging solutions.

Topic Areas – You are invited to participate and submit your contributions to the eARTS Workshop. The Workshop's areas of interest include (but are not limited to) the following topics:

- *Automotive Design-for-Test: enable high quality at low cost*
- *Statistical post-processing, Machine Learning, and AI for test and reliability*
- *Latent defect activation during production testing*
- *Built-In Self-Test in automotive systems: digital, analog, mixed-signal*
- *Reuse of test infrastructure and New Product Development acceleration*
- *Dependability challenges of autonomous driving and e-mobility*
- *Functional safety and cyber-security*
- *Automotive standards and certification - ISO 26262, AEC-Q100*
- *Approximate computing for automotive*
- *Verification and validation of automotive systems*
- *Fault tolerance and self-checking circuits*
- *Aging effects on automotive electronics*
- *Power-up, power-down and periodic test*
- *System level test*
- *Functional and structural test generation*
- *Automotive production testing*

Submission Instructions – The Workshop asks for the submission of **Extended Abstracts of two pages**; final submission version can be extended. Detailed submission instructions can be found at the Workshop's website: <https://cas.polito.it/eARTS2024/index.php/submissions/>. All submissions will be evaluated for selection with respect to their suitability for the workshop, originality, technical soundness, and presented results. Selected submissions can be accepted for regular or short presentation at the Workshop.

Publications – The Workshop will make available to all participants an Electronic Workshop Digest, which includes the material that authors are willing to provide (papers, presentations, videos, etc.).

Key Dates

- Submission deadline : **February 29, 2024**
- Notification of acceptance : **March 29, 2024**

Further Information

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