RESCUER: the first Workshop on Reliable and Secure RISC-V Architectures
29-30 May, 2025, Tallinn, Estonia

Program co-Chairs

Luca Cassano
Politecnico di Milano, IT
luca.cassano@polimi.it

Marco Ottavi
University of Twente, NL
m.ottavi@utwente.nl

Industrial Liason

Gianluca Furano
European Space Agency, NL
gianluca.furano@esa.int

RISC-V Foundation Liason

Vittorio Zaccaria
Politecnico di Milano, IT
vittorio.zaccaria@polimi.it

Web Chair

Elia Lazzeri
Politecnico di Milano, IT
elia.lazzeri@polimi.it

The Workshop will take place in conjunction with the 30th IEEE European Test Symposium (ETS 2025).

https://ets2025.taltech.ee/

Call for Contributions

As RISC-V gains widespread adoption across various industrial fields, the need for robust and secure architectures become increasingly vital.

RESCUER, the first workshop on REliable and SeCUrE RISC-V architectures, aims to convene an extremely diversified audience, including academic researchers, industry professionals, hardware and software engineers, and security experts, to foster a collaborative environment for knowledge exchange and innovation.

Topics of interest include, but are not limited to:

- hardware and software reliability and security mechanisms
- fault detection and tolerance techniques
- formal verification methods
- secure design practices
- secure architectures
- existing and novel attacks to RISC-V architectures
- radiation analysis of existing RISC-V processors
- case studies of RISC-V implementations in critical applications

The workshop will provide a platform for attendees to present their latest findings, share best practices, and discuss emerging trends and challenges in the field. By facilitating dialogue and collaboration, the RESCUER workshop aims to advance the state-of-the-art in secure and reliable RISC-V architectures, ultimately contributing to the development of resilient and trustworthy systems.

The three best student papers will be granted by the RISC-V Foundation with a free code for the RISC-V Fundamentals Course. The best student paper will also receive a free code for the RISC-V Foundational Associate (RVFA) certification.

Call for Submissions:

Perspective speakers are invited to submit an extended abstract of up to 2 pages or a complete 6-page paper (the submission form can be found on the workshop website). No formal proceedings of the workshop will be made available, but an informal digest of abstracts and papers will be distributed to the attendees. We seek talks on novel scientific works or preliminary results, as well as perspective talks.

Key dates:

- Papers submission deadline: 28 February 2025
- Author notification: 28 March 2025
- Author registration: 7 April 2025
- Camera-ready version: 30 April 2025

RESCUER 2025 webpage: https://cassano.faculty.polimi.it/RESCUER