



SERESSA 2023

19TH INTERNATIONAL SCHOOL ON THE EFFECTS OF RADIATION ON EMBEDDED SYSTEMS FOR SPACE APPLICATIONS

December 4th-7th, 2023, Turin, Italy

<http://asaclab.polito.it/seressa23>

IMPORTANT DATES

~~November 15th~~, ~~November 27th~~
Poster Deadline

~~November 17th~~, ~~November 24th~~
Online Registration Deadline

December 4th, 2023
SERESSA'23 Starts

December 7th, 2023
SERESSA'23 Ends

ORGANIZING COMMITTEE

General Chair:

- **Luca Sterpone**
Politecnico di Torino, Italy

Program Chair:

- **Corrado De Sio**
Politecnico di Torino, Italy

Poster Chair:

- **Eleonora Vacca**
Politecnico di Torino, Italy
- **Lucrezia Camilla Migliorin**
ISAE-SUPAERO, France

Web Chair:

- **Corrado De Sio**
Politecnico di Torino, Italy

The 19th International School on the Effects of Radiation on Embedded Systems for Space Applications (SERESSA) will be held December **4th – 7th, 2023, in Turin, Italy.**

MORE ON SERESSA

SERESSA combines academic, government, and industrial communities working on radiation effects on embedded systems. Radiation effects are a significant concern for space and avionics systems and critical applications operating at ground level, such as automotive, high-energy facilities, medical, or even banking.

The school is based on lectures and exercises involving real case studies using the common tools of the domain. The intended audience includes beginning and experienced researchers, engineers, and post-graduate students wishing to enhance their knowledge base in this rapidly evolving field.

The first SERESSA was organized in 2005, in the middle of the Amazon Jungle, Manaus, Brazil. Then, it moved around the world, being organized in Seville, Buenos Aires, Palm Beach, Takasaki, São José dos Campos, Toulouse, Ansan, Moscow, Bariloche, Puebla, Montreal, Munich, Noordwijk, Seville, Porto Alegre, Meyrin. Now, in 2023, it will be held in Turin, Italy.

TOPICS OF INTEREST

Topics covered by SERESSA include:

- Radiation Environment
- Spacecraft Anomalies
- Single-Event Effects (SEE)
- Total Dose Effects (TID)
- Radiation Effects in Power Systems
- Radiation Effects in Solar Cells
- Architecture Hardening
- Software hardening
- Effects in FPGAs
- Hardness Assurance
- Rate Prediction
- Radiation Testing
- Laser Testing
- Remote Testing Experiments.

CALL FOR POSTERS:

Attendants in SERESSA 2023 are encouraged to present their main line of research and recent results during a **poster session**. The idea is to promote **interaction among students and more experienced professionals** in the field. Student's posters will be considered for the **Best Student Poster award** granted to **the best three submissions** at the end of the school. Topic includes (but is not limited to) SERESSA's topics of interest.

CONTACTS:

Website: <http://asaclab.polito.it/SERESSA23>

luca.sterpone@polito.it corrado.desio@polito.it eleonora.vacca@polito.it

