

 **2025**

International

Remote

Sensing

Summer

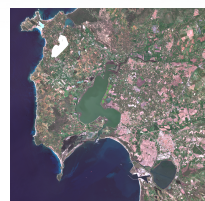
School



Sal 'e Porcus IRSSS 2025

IV edition

San Vero Milis, Sardinia – Italy 21 – 25 July, 2025



**Experiencing Remote Sensing on Sardinia inland site:
Advanced summer school on instruments and methodology
for a CAL/VAL site for Optical data.**

The National Institute of Geophysics and Volcanology (**INGV**) and the Department of Chemical and Geological Sciences of the University of Cagliari (**DSCG-UNICA**), jointly with the Italian Association of Remote Sensing (**AIT**), in cooperation with the Italian Space Agency (**ASI**) organise the **Fourth edition** of the International Remote Sensing Summer School

The school follows the editions in 2023 and 2024 that proposed Stagno di Sal 'e Porcus in western Sardinia as a Calibration/ Validation site for hyperspectral satellite data. Due to increased interest in **hyperspectral data** processing, the organizers have added new training objectives. The school will focus on the Spectral Classification of **Rare Earth Elements (REE)** using hyperspectral data from **field** and **satellite** sensors, along with **Lidar**, **radiometric**, and **thermal** data to enhance site knowledge.

During the school, data will be collected using various sensors to characterize the site and discuss its candidature. The geological and physiographic details of the site will be explained, and rock/mineral samples will be collected for spectral analysis. Students will learn about radiometric data processing through guided activities.

Topics:

- **Lidar and Hyperspectral data acquisition by UAV**
- **Thermal acquisition by UAV**
- **FLIR and spectral data collection on the ground**
- **Hyperspectral data classification and REE recognition**

PROGRAMME:

The School is organised in 5 days of lessons, starting on Monday 21 and closing on 25 July. These activities are based on the collection of suitable data on the field and its first processing. Lectures will complete the hands-on data processing practical exercises.

ATTENDANCE:

The school is open to early career scientists or employers, such as Ph.D. students, young post-doctoral scientists, technicians with base knowledge in Earth Sciences and Remote Sensing disciplines, wishing to expand and improve their skills in Earth Observation.

Participation is limited to a maximum of 20 students: a selection based on CVs and motivation letters will be applied.

Selected students are expected to attend the school equipped with their own Laptop.

Satellite images, instrumentations (e.g. spectral radiometers, sensors, UAVs, etc) for the field activities will be provided by the organization.

APPLICATION PROCEDURE:

- Download the Application Form from the site www.aitonline.org
- Fill it with your personal data
- Save it in PDF format
- Send it with a Curriculum Vitae and a Motivation Letter by e-mail to:

Maria Teresa Melis titimelis@unica.it

Massimo Musacchio massimo.musacchio@ingv.it

FEES:

The cost is 560,00 Euro, VAT included, to be paid to AIT by May 30, 2025.

Fees include attendance to all the Summer School activities (field surveys, lectures, and laboratories), transfers from and to Cagliari and the accommodation. Moreover, the fee includes the registration to AIT for the years 2025 and 2026.

Travel costs from personal residences are not included.

SCHOLARSHIPS:

ASI will support the registration of 5 applicants.

KEY DATES AND DEADLINES:

Date: 21 -25 July, 2025.

The School will start at 9:00am on Monday 21 and will end at 2:00pm on Friday 25.

Application deadline:

The deadline for the submission is April 30, 2025.

Admission to the school:

The acceptance of the application will be communicated by May 12, 2025.

VENUE:

San Vero Milis, Oristano- Italy

Participants will be welcomed in Cagliari on Sunday 20 and taken to the School in San Vero Milis.

On Friday 25, they will be taken back to Cagliari.

ORGANIZATION:

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Maria Teresa Melis (UNICA)

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