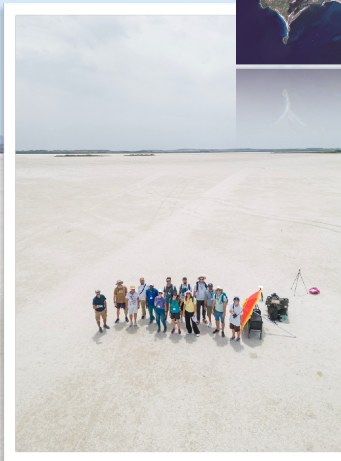
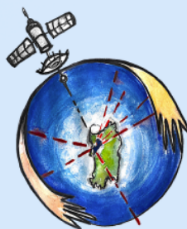


Sal 'e Porcus IRSSS 2024



International Remote Sensing Summer School III edition

San Vero Milis, Sardinia - Italy 16 - 20 September, 2024



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**) and the National Aeronautics and Space Administration (**NASA**) organise the Third edition of the International Remote Sensing Summer School.

PURPOSE:

This school comes after a first edition in 2023 dedicated to propose the candidate spot Stagno di Sal 'e Porcus in western Sardinia, as Calibration/Validation site for hyperspectral satellite data.

The specific attention demonstrated during the first edition and the growth of interest in **hyperspectral data processing** pushed the organisers to improve the activities with new training objectives. In particular, this school intends to propose the theme of the Spectral Classification of the **Rare Earth Elements (REE)** using hyperspectral data collected on the field and from satellite sensors. This new topic will complete the collection of **Lidar, radiometric and thermal data** from proximal sensing (optical, thermal and Lidar data from **UAVs** and field spectral-radiometer) to improve the knowledge on the site.

PROGRAMME:

The School is organised in 5 days of lessons., starting on Monday 16 at 4:00pm and closing on Friday 2024 at 1:00pm. 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.

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**

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 EO.

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. spectralradiometers, sensors, UAVs, etc) for the field activities are provided by the organization.

KEY DATES AND DEADLINES:

Date: 16 -20 September, 2024.

The School will start at 2:00pm on Monday 16 and will end at 2:00pm on Friday 20.

Application deadline:

The deadline for the submission is July 19, 2024.

Admission to the school:

The acceptance of the application will be communicated by July 22, 2024.



VENUE:

San Vero Milis, Oristano- Italy
Participants will be welcomed in Cagliari on Monday 16 and taken to the School in San Vero Milis.
On Friday 20, they will be taken back to Cagliari.

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 August 9, 2024.

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 2024 and 2025.

Travel costs from personal residences are not included.

SCHOLARSHIPS:

ASI will support the registration of 5 applicants.

ORGANIZATION:

Massimo Musacchio (INGV)

Maria Teresa Melis (UNICA)

Jan Kanuk (UPJS, Kosice)

Michal Gallay (UPJS, Kosice)

Marco Casu (UNICA)

Claudia Collu (UNICA)

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