

# International Remote Sensing Summer School

## II edition

Experiencing Remote Sensing on Mont Blanc (Italian Western Alps, Courmayeur):  
Remote and proximal sensing for monitoring alpine environment  
17-21 June 2024, Courmayeur, Aosta Valley, Italy

The Fondazione Montagna sicura (FMS), 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), organise the second edition of the International Remote Sensing Summer School: Experiencing Remote Sensing on Remote and proximal sensing for alpine environment.



### PURPOSE:

*The School aims to approach the study of mountains area by using hyper/multi spectral satellite data introducing also ground based instrumentation for monitoring landslides, glaciers and snow.*

*During the school, through the collection of radiometric, atmospheric and topographic data from direct measures and proximal sensing (field spectral-radiometer, optical, and radar sensors and UAVs), the site will be characterised.*

*The geologic and physiographic description of the site will be explained, and the direct collection of the samples for spectral characterisation will be proposed. The school will introduce the students to the principles of radiometric data processing through guided activities into the handling and understanding of the data collected in the field.*

### PROGRAMME:

The School is organised in 5 days of activities, starting on Monday 17th June 2024 at 2:00 pm and closing on Friday 21st June at 2:00pm.

The activities are based on the collection of suitable data in the field and its first processing. During each day, in the morning the activities dedicated to the measures with sensors (e.g. on-board of UAVs and field spectral instrumentation) will be carried out, and in the afternoon the students will be guided on the processing of the data collected in the field.

Lectures will complete the hands-on data processing practical exercises.

### VENUE:

Courmayeur - Italy

Participants will be welcomed in Courmayeur on Monday 17 and taken to the School in:

Fondazione Montagna sicura  
"Villa Cameron"  
Località Villard de la Palud, 1

## 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 25 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 in-field activities are provided by the organisation.



## KEY DATES AND DEADLINES:

Date: 17 -21 June 2024.

The School will start at 2:00pm on Monday June 17, and will end at 2:00pm on Friday June 21.

### Application deadline:

The deadline for the submission is February 29, 2024.

### Admission to the school:

The acceptance of the application will be communicated by March 5, 2024.

Full payment due by March 30 2024

## APPLICATION PROCEDURE:

- Download the Application Form from the site:

[www.aitonline.org](http://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](mailto:titimelis@unica.it)

**Massimo Musacchio** [massimo.musacchio@ingv.it](mailto:massimo.musacchio@ingv.it)

**Simone Gottardelli** [sgottardelli@fondms.org](mailto:sgottardelli@fondms.org)

## FEES:

The cost is 750,00 Euro, VAT included, to be paid to AIT by March 30, 2024.

Fees include attendance to all the Summer School activities (**Field surveys, lectures, and laboratories**), transfers for the planned fieldtrips (**Skyway cablecar tickets, Van renting**), safety equipment for altitude & Mountain guide (**1 day activity at 3500 m asl**), and the accommodation at Courmayeur.

Moreover, the fee includes the registration to the AIT for the years 2024 and 2025.

Travel costs from personal residences are not included.



## ORGANIZATION:

Simone Gottardelli (FMS)

Massimo Musacchio (INGV)

Maria Teresa Melis (UNICA)

Marco Casu (UNICA)

Claudia Collu (UNICA)

Francesco Dessi (UNICA)

Salvatore Noli (UNICA)

For further information please contact:

Maria Teresa Melis:

[titimelis@unica.it](mailto:titimelis@unica.it)

Massimo Musacchio:

[massimo.musacchio@ingv.it](mailto:massimo.musacchio@ingv.it)

Simone Gottardelli

[sgottardelli@fondms.org](mailto:sgottardelli@fondms.org)

and visit:

[www.aitonline.org](http://www.aitonline.org)

[www.unica.it](http://www.unica.it)

[www.ingv.it](http://www.ingv.it)

[www.fondazionemontagnasicura.org](http://www.fondazionemontagnasicura.org)