



Summer School

SENTINEL FOR APPLICATIONS IN AGRICULTURE

The [Italian Association of Remote Sensing](#) (AIT), jointly with the [Institute for Electromagnetic Sensing of the Environment](#) (IREA) of the National Research Council of Italy (CNR), in cooperation with [European Space Agency](#) (ESA) and [European Association of Remote Sensing Laboratories](#) (EARSeL), and under the auspicious of [EO4GEO](#) project organizes a Remote Sensing Summer School focused on “**Agricultural applications of SENTINEL data**”

General contents

Copernicus ESA satellites Sentinel 1, 2 and 3 with central focus on Agriculture techniques and policies, measurements, multi-temporal analysis and analytics for applications at different scales. Topics will include: land cover/use mapping (case studies), crops detection and phenological phases survey, precision farming, drones' use integration, canopy health and main related parameters.

Summer School Organization

- The School includes lectures covering overviews of the recent ESA Sentinel missions, Earth System Modeling, Data Assimilation, as well as hands-on data processing practical exercises.
- The one-week course aims at providing students with integrated end-to-end perspectives, ranging from analysis and measurement techniques to operational applications, at different working scales.
- In-field exercises will be organized to collect data through ad-hoc instrumentation: spectral measurements, drone imagery, proximal sensor on tractors, etc. Samples' collection for testing in proximity (weather permitting) of scheduled acquisition of Sentinel data is also planned.

Attendance

The school is open to early career scientists or employers, such as Ph.D. students, young post-doctoral scientists, technicians specialized in Earth Science disciplines, wishing to expand and improve their knowledge and skills on EO in Agriculture.

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, having adequate capabilities for image processing. We recommend having the [SNAP tool](#) already installed.

Satellite images, instrumentations (e.g. spectroradiometers, drones, etc) for the in-field excursion are provided by CNR-IREA, e-GEOS, ITHACA and DISAFA-University of Torino.

APPLICATION DEADLINE: Candidacy has to submit by April 30th, 2018.

VENUE: agro-farm premises Centro Formazione Tadini, Loc. Cariga Podenzano (PC), Italy

DATE & TIME: September 17th to September 21st, 2018. Lessons start at 12:30 PM on Monday Sept 17th and end at 01:30 PM on Friday Sept 21st.

FEES: the cost is 950 Euro to be paid to AIT within 30/06/2018.

Fees include attendance to the lectures and laboratories (including in-field excursions), accommodation and luncheons costs. Travel costs are not included. (Financial support is not available).

Application procedure

- Download the [Application Form](#)
- Fill it with your personal data
- Save it in PDF format
- Send it with the other requested information

Once the form has been filled it must be sent to Mario Angelo Gomasasca at the following contacts

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Summer School Director

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Acceptation: According to the Italian Law DRP 28/12/2000 no. 445, I declare that the above information is correct and true to the best of my knowledge; to be aware of the penal responsibility of a false declaration or to a declaration not corresponding to the truth; to be aware that AIT will verify the data. Based on Italian Law D.L. 196/03 I give my consensus to use my personal information