UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH

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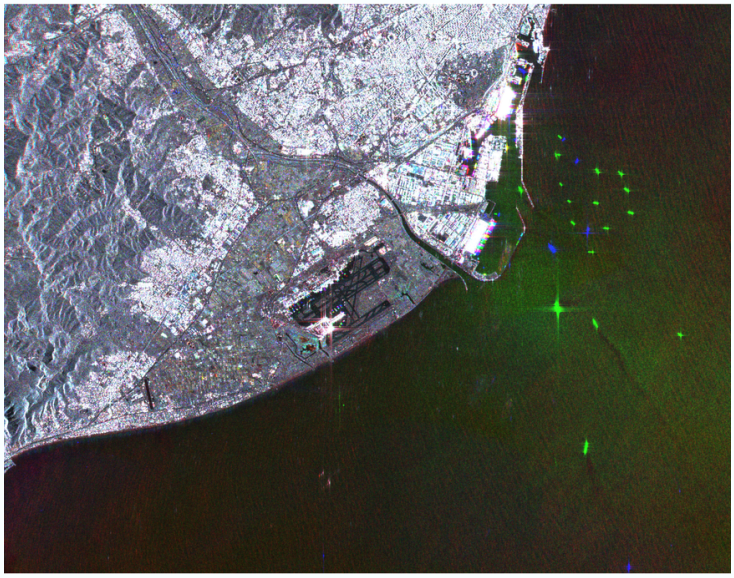
The workshop is jointly organised by ESA and the Signal Theory and Communications Dept. Universitat Politècnica de Catalunya

9th International Workshop on Retrieval of Bio- & Geo-Physical Parameters from SAR Data for Land Applications

18 - 20 November 2026
Barcelona, Catalonia, Spain

https://indico.esa.int/event/640/



Universitat Politècnica de Catalunya
Campus Nord, Carrer de Jordi Girona, 1
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Announcements and Call For Abstracts

Abstract submission opening	13th July
Abstract submission deadline	10th Setember
Notification of acceptance	5th October
Registration Opening	13th July
Issue of preliminary programme	18th October
Issue of final programme	9th November

Further information and guidelines regarding the registration and abstract submission can be found on the workshop website at: biogeosar.esa.int

Contact Points & Logistics

Workshop Organising Commitee

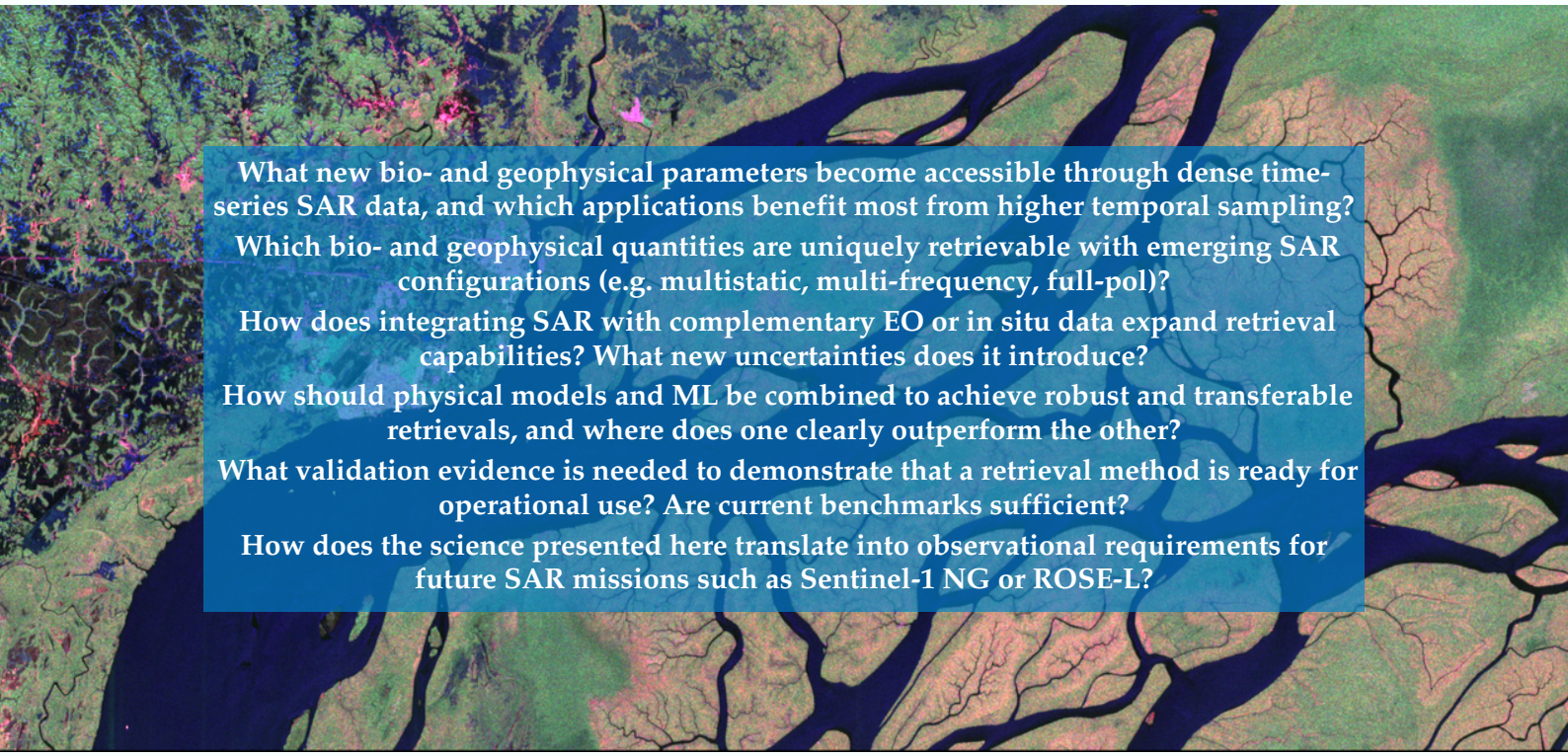
Francesca Ticconi (ESA)
Björn Rommen (ESA)
Nicolas Floury (ESA)
Maria Paola Clarizia (ESA)
Carlos López-Martínez (TSC, UPC)
Marc Herrera-Giménez (TSC, UPC)

Workshop Logistics

Logistics details (e.g. venue, transportation) are included in the Logistics & Practical information document in the workshop webpage.

Language and Fees

The official language of the workshop is English.
No participation fees will be charged. Participants are expected to finance their own travel & accommodation expenses.



What new bio- and geophysical parameters become accessible through dense time-series SAR data, and which applications benefit most from higher temporal sampling?

Which bio- and geophysical quantities are uniquely retrievable with emerging SAR configurations (e.g. multistatic, multi-frequency, full-pol)?

How does integrating SAR with complementary EO or in situ data expand retrieval capabilities? What new uncertainties does it introduce?

How should physical models and ML be combined to achieve robust and transferable retrievals, and where does one clearly outperform the other?

What validation evidence is needed to demonstrate that a retrieval method is ready for operational use? Are current benchmarks sufficient?

How does the science presented here translate into observational requirements for future SAR missions such as Sentinel-1 NG or ROSE-L?

Background & Scientific Objectives

This series of workshops was initiated in the late 1990s, stimulated by the launch of ESA's ERS-1/2 satellites and by the onset of data from airborne and Space Shuttle SAR missions. The main scope was to examine the state of the art and promote the development of SAR land applications that rely on the extraction of bio- & geophysical parameters.

Nowadays, the workshops aim to bridge the modelling and experimental communities, foster collaboration, and generate ideas that could inform future mission proposals, with a particular emphasis on expanding terrestrial applications of SAR data from current BIOMASS and NiSAR to upcoming missions such as Sentinel-1 Next Generation and ROSE-L, while promoting the integration of SAR and complementary EO or in situ datasets to foster new applications.

Organisation

The workshop is organised around oral presentations and posters selected by the scientific committee, invited overview presentations, round table discussions and summary sessions

The program follows a similar setup to the earlier editions of the workshop. As such, contributions are invited covering the following main themes:

- Model and algorithms
- Novel observational techniques (e.g., bistatic, polarimetry, small platforms)
- General Land-use applications
- Soil and hydrology
- Ice and snow
- Agriculture
- Forestry

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