



## Session

# Remote Sensing for Archaeology and Heritage: past efforts and new developments

### **Chairpersons:**

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### **Description and Motivation:**

Remote Sensing has been around for decades and has become an integral part of research. Over the last years various improvements have increased the uptake in archaeology and its use for the managing of world heritage sites. The availability of drones enables the easy application in many circumstances. At the same time, the computational power is increasing allowing the use of larger datasets and the use of AI and other modelling applications to (automatically) detect and predict archaeological features. The availability of open source software and more notably scripting languages enable an increased reproducibility of workflows. Remote sensing techniques are always in development and the application possibilities and challenges in different landscapes, indicates that there are still new avenues to explore for the broad range application.

While creating new datasets is part of remote sensing, there are many archives with aerial pictures with many archaeological and UNESCO World Heritage sites visible in landscapes that do not exist anymore. The application of legacy data for the management of cultural heritage sites proves and interesting new field

of study. Many legacy datasets are not yet digitally available and therefore not open data, posing extra challenges for Open Science.

We invite presenters to present their new tools, new applications, new workflows and the experiences in use on remote sensing (in the broadest sense) in archaeology to contribute to this session. We look forward to engaging in a lively and thought-provoking discussion on new techniques, the use and the limits of remote sensing. Thank you for considering this call for papers.

**Target Audience:**

Archaeology, Geography, Computer Science, Data Science, Geology, Heritage

**Keywords:**

Remote Sensing; Archaeology; GIS; Drones; AI

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