

2019 IMEKO TC-4 INTERNATIONAL CONFERENCE ON

# METROLOGY FOR ARCHAEOLOGY AND CULTURAL HERITAGE

FLORENCE, ITALY | DECEMBER 4-6, 2019



UNIVERSITÀ  
DEGLI STUDI  
FIRENZE

## CALL for PAPERS for the special session on:

### ELECTROMAGNETIC METHODS IN ARCHAEOLOGY AND CULTURAL HERITAGE APPLICATIONS

#### → ABSTRACT

In recent years, the electromagnetic (EM) methods gained great popularity in the field of Cultural Heritage, where, nowadays, the application of these non-invasive techniques regards both contact and non-contact methods used at different scales in archaeology, cultural landscape analysis and ancient buildings or artworks measurements.

This session aims to collect contributions concerning applications and innovations in electromagnetic methods for Cultural Heritage research. In particular, we seek examples regarding the application of EM methods at different scales, from satellite, aerial or ground acquisitions for archaeological and cultural landscape analysis, all the way down to small scale applications for ancient buildings or artworks analysis and preservation.

#### → TOPICS

In detail the main topics will be:

- Applications and new perspectives in the field of remote sensing techniques and satellite imagery types applied to the discovery, preservation, and management of archaeological sites and cultural landscape analysis;
- Aerial photography in archaeology: from historical and traditional vertical air-photos to multispectral and hyperspectral airborne scanners and Lidar data;
- Applications of GPR, FDEM, and TDEM for ground or airborne archaeological field research;
- Application and integration of non-invasive EM methods (e.g. GPR, HSR, IR Thermography, etc.) in NDT for in situ analysis of ancient buildings;
- Use and perspectives of non-invasive EM methods (e.g. Multispectral Imaging, XRF, etc.) for in situ analysis of Cultural Heritage artworks (e.g. wall paintings, paintings, manuscripts, mosaics, ceramics, etc.).

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