



2019 IMEKO TC-4 INTERNATIONAL CONFERENCE ON METROLOGY FOR ARCHAEOLOGY AND CULTURAL HERITAGE

FLORENCE, ITALY | DECEMBER 4-6, 2019

CALL for PAPERS for the special session on:



UNIVERSITÀ
DEGLI STUDI
FIRENZE

GEOARCHAEOLOGICAL METHODS FOR COASTAL SITE AND LANDSCAPE RECONSTRUCTIONS

→ ABSTRACT

Since historical times, the construction of coastal cities and commercial ports have played a strategic role in human development, strongly modifying the coastal zones, which are already areas of high dynamics, characterized by continuous landscape changes. Moreover, the human-induced modifications on the coasts have been also aimed to reduce the impacts of relative sea level rise due to global and local changes.

Human-environmental interactions in coastal zones are a key theme in Quaternary environmental researches finalized to the reconstruction of ancient paleolandscape and their evolution analysis. Obtainable data are crucial for assessing the impact of current and future climate change and anthropogenic pressure on the coastal zones at risk. In the last years, the integration between geo-acoustic and optical indirect methods allowed the high-resolution mapping of wide coastal areas and archaeological sites by combining remote sensed and direct data. These multidisciplinary approaches allow collecting four-dimensional data - 3D points and time - with great documental value of the archaeological heritage, also in the case of semi or totally submerged structures. These achievements at the same times are useful constants for detailed coastal reconstructions and evolutions. This session welcomes papers that concern multidisciplinary and/or modern approaches to explore ancient coastal landscapes, geomorphological processes, human impacts and system responses, as well as issues such as landscape evolution, resilience and human adaptation. Themes may include the impacts of coastal dynamics and changes on human settlements, as well as the impacts of anthropic constructions on coastline evolution. Approaches involving the use of multi-scalar datasets are encouraged.

→ TOPICS

- Measurement techniques for reconstructing ancient coastal landscapes;
- Remote sensing and geophysical survey applications for underground and underwater archaeology;
- Multi-proxy assessment for studying the evolution of anthropic landscapes in coastal zones;
- In situ surveys and geomatics techniques for the three-dimensional reconstruction of ancient coastal landscapes;
- Environmental approaches to reconstruct past changes in landscape, climate, flora, and fauna.

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