



## ABSTRACT SUBMISSION

# Geoarcheology in Southwest Asia: specificities, current applications and perspectives

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## Abstract

Southwestern Asia encompasses various physical environments, ranging from Mediterranean to hyperarid domains. The current and palaeoclimate variability influences geomorphological processes, ecosystems and water-resources distribution, leading to the development of specific geoarchaeological methodologies adapted to drylands. This presentation will introduce the workshop “**Environmental multi-proxies in Southwest Asia: scale constraints and new perspectives**” and present an overview of geoarchaeological studies applied to stress the success and limitations of well-known methodologies and cutting-edge approaches. It includes: i) geomorphological studies from Mediterranean and semi-arid areas to hyperarid domains, with a particular focus on surface processes that affect the preservation and conservation of open-air sites; ii) success in remote-sensing and mapping that are representative of the ideal working conditions prevailing in Southwestern Asia; iii) a discussion on the scarce preservation of plant remains, a part of rare exceptions with site-specific conditions that likely limit inductive reasoning to draw broader reconstitutions on the environment; iv) the inputs of the geochemical studies applied to speleothems and gastropods to collect new data on regional and local climate variability and past meteorological conditions; v) contributions of soil science and micromorphology to study depositional anthropogenic processes and post-depositional processes in the archaeological landscape-sites nexus; vi) perspectives and issues in geochronology.

## Keywords

Geoarchaeology, Landscape, Multiscalar, Variability, Ecosystems

## Session

2. Natural resources and anthropised landscapes

## Workshop

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## Type of paper

