2019 IMEKO TC-4 INTERNATIONAL CONFERENCE ON

METROLOGY FOR ARCHAEOLOGY AND CULTURAL HERITAGE

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UNIVERSITÀ DEGLI STUDI FIRENZE

CALL for PAPERS for the special session on:

NON-INVASIVE SYSTEMS AND TECHNIQUES FOR "ON SITE" MONITORING AND DIAGNOSIS

ABSTRACT

On-site monitoring of both archaeological sites and museum exhibits is of fundamental importance for a correct preservation of cultural heritage, preventing degradation phenomena through appropriate countermeasures taken at an early stage.

An effective and proactive monitoring entails two main aspects: continuous measurement of the quality of the environment, both inside a museum or at a historical site, and periodical assessment of the preservation status of cultural heritage artifacts.

Within such context, this special session focuses on the latest trends in sensors and sensor networks for environmental monitoring and non-destructive testing and diagnosis techniques for historical artifacts, including, for example:

- Environmental sensors (temperature, humidity, pressure, etc.)
- Sensors for pollution (particle matters and gaseous compounds)
- Vibration sensors
- Microwave diagnostic systems (spectroscopy, GPR, resonance methods, etc.)
- Optical methods (visible, IR, UV, etc.)
- X-ray scanners
- Thermal imaging
- Deformation analysis
- Sensor networks

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