

EDICULA

Educational Digital Innovative Cultural heritage related Learning Activities

Project Code: 2020-1-EL01-KA203-079108



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INTELLECTUAL OUTPUT:
DELIVERABLE:
ORGANIZATION:
DATE:

O3 EDICULA HANDS-ON FRAMEWORK
D3.4B Non-destructive and Analytical testing bibliography
NTUA
30 March 2022



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1. The rehabilitation of the Holy Aedicule

Brief overview of the project of the rehabilitation of the Holy Aedicule

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Non-destructive testing – project of the rehabilitation of the Holy Aedicule - Overview

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3. Moropoulou, A., Georgopoulos, A., Korres, M., Bakolas, A., Labropoulos, K., Agrafiotis, P., Delegou, E.T., Moundoulas, P., Apostolopoulou, M., Lambrou, E., Pantazis, G., Kotoula, L., Papadaki, A., Alexakis, Em. «Five-Dimensional (5D) Modelling of the Holy Aedicule of the Church of the Holy Sepulchre Through an Innovative and Interdisciplinary Approach», in: *Mixed Reality and Gamification for Cultural Heritage*, Eds. M. Ioannides, N. Magnenat-Thalmann and G. Papagiannakis, Springer International Publishing. (2017) 247-270 [DOI: https://doi.org/10.1007/978-3-319-49607-8_9]

Characterization of historical mortars – Design of restoration mortars – in situ compatibility assessment by NDT

4. Apostolopoulou, M., Delegou, E. T., Alexakis, E., Kalofonou, M., Lampropoulos, K. C., Aggelakopoulou, E., Bakolas, A., & Moropoulou, A. (2018). Study of the historical mortars of the Holy Aedicule as a basis for the design, application and assessment of repair mortars: A multispectral approach applied on the Holy Aedicule. *Construction and Building Materials*, 181, 618-637. [DOI: <https://doi.org/10.1016/j.conbuildmat.2018.06.016>]

Archaeometry - Historical mortars dating

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Archaeometry – Provenance study of the interior marbles

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Characterization of microbiota – Sustainability

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Ground Penetrating Radar – Church of the Holy Sepulchre

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2. Non-destructive Testing in Cultural Heritage protection - General

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3. Integration of building materials data, decay data & geometrical documentation data for the monitoring of built cultural heritage - General

13. Delegou, E. T., Tsilimantou, E., Oikonomopoulou, E., Sayas, J., Ioannidis, C., & Moropoulou, A. (2013). Mapping of building materials and conservation interventions using GIS: The case of Sarantapicho Acropolis and Erimokastro Acropolis in Rhodes. *International Journal of Heritage in the Digital Era*, 2(4), 631-653.. [DOI: <https://doi.org/10.1260/2047-4970.2.4.631>]
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4. Selected CH applications of Ground Penetrating Radar

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5. Compatibility assessment of conservation interventions - General

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