"HOW COMPLEX IS 3D DIGITISATION IN CULTURAL HERITAGE?"

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3D digitisation is the most challenging procedure in the documentation of the past. Previous research and developments in this domain clearly demonstrates, that a holistic 3D e-documentation including all related information and data is not yet fully realised, due to the lack of international standards.

At the starting point of a typical 3D documentation project, an immediate concern is to determine the level of complexity of an object, structure or site, addressing practical issues such as the physical dimensions of a space, the surface quality, materials and the overall environment. The acquired information will determine the necessary effort, production time and recording method. Ideally, though, the proposed recording method would also integrate a broader range of pertinent issues such as aesthetics, historical, social and environmental significances, among others. This information, in combination with the specifications of the recording technology and the dimensional record, would provide a more thorough and comprehensive description of the object or site.

The Digital Past 2021 workshop will aim to address the issue of "complexity" in the field of 3D digitisation, by inviting specialists coming from various Cultural Heritage fields to discuss key questions like: a) Which are the challenges of 3D surveying in CH? b) In which ways are the entanglements defining the final complexity of the 3D acquisition process? c) Which are the missing standards for 3D in CH modelling and the long-term preservation of 3D models.

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3D models and exploded HBIM model of the World Heritage site of Asinou church in Nikitari, Cyprus

Biography

Dr. Ioannides is the director of the Digital Heritage Lab of the Cyprus University of Technology, Limassol. The Lab since 2013 was awarded several EU projects (total budget: 7.5 MEuro). In 2017 his Lab received the UNESCO Chair on Digital Cultural Heritage, the only Chair in the World in the areas of Education, Science and Technology. The European Research Area Chair on Digital Heritage was gained in 2018 under the H2020 Widening Programme, with 2.5 MEuro financial support in order to establish a regional centre of Excellence in Cyprus.

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